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Customer Support

Technical Assistance

To search our knowledge base for a solution or to log in to the Technical Support portal and report a problem, go to www.hsmcontactsupport.com.

For our latest contact information, see www.honeywellaidc.com/locations.

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. To find your service center, go to www.honeywellaidc.com and select Support. Contact your service center to obtain a Return Material Authorization number (RMA #) before you return the product.

To obtain warranty or non-warranty service, return your product to Honeywell (postage paid) with a copy of the dated purchase record. To learn more, go to www.honeywellaidc.com and select Service & Repair at the bottom of the page.

For ongoing and future product quality improvement initiatives, the mobile computer comes equipped with an embedded device lifetime counter function. Honeywell may use the lifetime counter data for future statistical reliability analysis as well as ongoing quality, repair and service purposes.

Dolphin CT60 Non-Incendive (NI) Versions Only (CT60-L0N-xxCxx1F, CT60-L1N-xxCxx1F)

Warning: Explosion Hazard - Substitution of components may impair suitability for Class I, II, III Division 2 locations.

Avertissement: Risque d' explosion - Le remplacement de composants risque de compromettre l’adaptation du produit aux sites de catégorie I, II, III division 2.

Dolphin CT60 Models for use in Hazardous Locations (CT60-L0N-xxCxx1E, CT60-L1N-xxCxx1E)

Warning: Explosion Hazard - Substitution of components may impair suitability.

Avertissement: Risque d’ explosion – Le remplacement de composants risque de compromettre l’adaptation du produit aux sites.
Limited Warranty

For warranty information, go to www.honeywellaidc.com and click Resources > Product Warranty.
This chapter introduces the Dolphin CT60 Mobile Computer with the Android operating system. Use this chapter to learn about the basic computer features, functions, and accessories.

About the Dolphin CT60 Mobile Computer

Dolphin CT60 mobile computers, built on the Mobility Edge™ platform, deliver real-time connectivity, advanced data capture, and future-proof investment protection. All CT60 models come equipped for fast Wi-Fi connectivity with a WLAN 802.11 a/b/g/n/ac radio and Bluetooth (v5.0) technology that includes Bluetooth Low Energy (BLE) support. CT60L1N models provide additional connectivity with a wireless WWAN radio for high speed data and quality voice support across all network technologies. CT60 WWAN models also include an integrated global positioning satellite (GPS) receiver that supports GPS protocols including, Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo and Beidou GPS.

Honeywell also offers CT60 models for use in hazardous environments.

Note: Throughout this manual, all versions of the mobile computer are referred to as the CT60 unless information is specific to a particular model.

Note: The Settings app varies by computer model and OS version. Your computer may not include all the features shown throughout the manual.

Model Overview

<table>
<thead>
<tr>
<th>Standard Feature</th>
<th>Model CT60L0N</th>
<th>Model CT60L1N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Android operating system</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>2.2 GHz Qualcomm Snapdragon™ 660 octacore processor</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>3 GB/4 GB DDR4 RAM, 32 GB flash memory</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>
### Standard Feature

<table>
<thead>
<tr>
<th>Feature</th>
<th>Model CT60L0N</th>
<th>Model CT60L1N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large, high definition, bright color, outdoor-readable display with responsive multi-touch capacitive touch panel. Automatic switching between glove and finger modes.</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Integrated ambient light sensor, proximity sensor, accelerometer, gyroscope, magnetometer, and pressure sensor</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Choice of Honeywell High performance 2D imager with ergonomic scan buttons</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>WLAN IEEE 802.11a/b/g/n/ac radio; Wi-Fi certified</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Bluetooth™ V5.0 and Bluetooth Low Energy (BLE) technology support</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>NFC technology for short-range wireless data exchange</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Wireless WWAN radio for high speed data and quality voice support across all network technologies</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Dual micro-SIM slots</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Integrated GPS receiver; GPS Supported Protocols: Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo and Beidou</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Mid-tier rugged specifications with IP67 sealing</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Customer-accessible microSD™ slot for removable memory cards up to 512 GB (SDXC/SDHC/SDIO-compliant)</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Value-added software components supporting specialized imaging and OCR functions</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>13-megapixel color camera, 4K video with image stabilization and advanced software features for enhanced exposure control</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

**Note:** To learn more, see Appendix A: Specifications beginning on page 93.
Features of the CT60

* Navigation Panel icons may vary depending on the unit type.
**Note:** Hand strap not shown.

* Phone feature is available only on CT60L1N models. For all models, when using a UICC card for NFC Secure Element NFC link encryption, install the card in SIM slot 1. SIM 2 feature is available only on CT60L1N models.
About the Battery

The computer uses a rechargeable Li-ion battery as its main power source. Several factors determine the life of the battery, such as display brightness, display timeout, input device, extreme temperature, and battery usage. Honeywell recommends that you keep the battery charged at all times to prevent data loss.

Dolphin CT60 computers are designed for use with battery model CT50-BTSC manufactured for Honeywell International Inc. When ordering a replacement battery, it is important to order by part number and not only by model number. See Battery Part Numbers on page 6 for guidance on the correct battery part number for your unit configuration.

For a list of compatible accessories for the CT60 mobile computer series and their part numbers, see the Dolphin CT60 Accessory Guide, available for download from the CT60 product page at www.honeywellaidc.com.

Contact your local sales representative for replacement battery ordering information.

Caution: Read Battery Recommendations and Safety Precautions on page 12 and all cautionary markings on the battery, charging peripheral, and device using the battery before attempting to install, use, or charge the battery.

Important Information

About CT60 Non-Incendive Models (CT60-L0N-xxCxx1F, CT60-L1N-xxCxx1F)

Warning: Explosion Hazard—Batteries must only be changed or charged in an area known to be non-hazardous. Use ONLY Honeywell CT60 battery part number 318-055-012.

Avertissement: Risqued’explosion—Les batteries doivent uniquement être remplacées ou rechargées dans un endroit non dangereux. Utilisez UNIQUEMENT Honeywell CT60 batterie P/N 318-055-012.

Warning: Battery must be locked when using the CT60 NI in a hazardous environment.

Avertissement: La batterie doit être verrouillée lors de l’utilisation du NI CT60 dans un environnement dangereux.
About CT60 Models for use Hazardous Locations (CT60-L0N-xxCxx1E, CT60-L1N-xxCxx1E)

Warning: Explosion Hazard—Batteries must only be changed or charged in an area known to be non-hazardous. Use ONLY Honeywell CT60 battery part number 318-055-013 or 318-055-016.

Avertissement: Risques d'explosion—Les batteries doivent uniquement être remplacées ou rechargées dans un endroit non dangereux. Utilisez UNIQUEMENT Honeywell CT60 batterie P/N 318-055-013 or 318-055-016.

Warning: Battery must be locked when using the CT60 in a hazardous environment.

Avertissement: La batterie doit être verrouillée lors de l'utilisation du CT60 dans un environnement dangereux.

Warning: Charging accessories and additional spare batteries must not be carried in the hazardous area.

Avertissement: Les accessoires de charge et les batteries de rechange supplémentaires ne doivent pas être transportés dans un environnement dangereux.

Warning: The device must be protected from impacts with high impact energy, permanent UV light emission and high electrostatic discharge processes.

Avertissement: L'appareil doit être protégé contre les chocs à haute énergie, les émissions permanentes de lumière UV, et les processus de décharge électrostatique élevée.

Battery Part Numbers

CT60 Models

<table>
<thead>
<tr>
<th>Model Configuration</th>
<th>Battery P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT60-xxx-xxxxx0x</td>
<td>318-055-012</td>
</tr>
<tr>
<td>CT60-xxx-xxxxx1E</td>
<td>318-055-013</td>
</tr>
<tr>
<td></td>
<td>318-055-016</td>
</tr>
<tr>
<td>CT60-xxx-xxxxx1F</td>
<td>318-055-013</td>
</tr>
<tr>
<td></td>
<td>318-055-016</td>
</tr>
</tbody>
</table>

Configuration number (CN) is located on the label in the battery well of the mobile computer.
CT60 XP Models

Charge the Battery Before Use

Dolphin CT60 computers ship with the battery significantly discharged of power. Fully charge the battery before using your computer for the first time.

You can charge the battery with a Dolphin CT50/CT60 charging accessory before or after you install the battery in the computer. A fully discharged battery charge in approximately 6 hours.

To charge the battery before you install it in the computer:

- Insert the battery into the Honeywell Quad Battery Charger or the battery well of a CT50 HomeBase or eHomeBase.

To charge the battery after installing it in the computer:

- Insert the computer into a CT50 HomeBase, eHomeBase, ChargeBase, NetBase, USB Adapter, or Vehicle Power Adapter.

**Note:** Using the computer while charging the battery increases the time required to reach a full charge.

Battery Replacement

If your battery power is low, you need to either charge the battery in the computer or replace it with a charged battery.

**Warning:** If you have a CT60 model certified for use in hazardous locations, read Important Information on page 5.
Before Attempting to Remove the Battery

Before removing the battery, always do one of the following:

- Power off the computer.
- Place the unit in Swap Battery mode. Swap Battery mode places the computer in a low power state so that the battery can be removed for a short time.

Swap Battery Mode

Swap Battery mode places the computer in a lower power state so that the battery can be removed for a short time. This feature is not available on all models.

To activate Swap Battery mode:

1. Press and hold the **Power** button until the options menu appears.
2. Touch **Swap Battery** and follow the on-screen instructions.
3. Once you replace the battery, press the **Power** button.

Replace the Battery

⚠ **Warning:** If you have a CT60 model certified for use in hazardous locations, read **Important Information** on page 5.

1. Depending on your model type, either power off the CT60 or place the unit in Swap Battery mode. To learn how, see **Swap Battery Mode**.
2. Disconnect one end of the hand strap from the computer.
3. Press and hold down the small button on the battery latch, and then slide the latch toward the bottom of the computer to unlock the battery.
4. Lift up on the edge of the battery and remove it from the computer.

5. Insert the charged battery into the computer.

6. Apply pressure to the battery and slide the lock toward the top of the computer into the locked position.

7. Attach the hand strap.

8. Press the **Power** button.

**About the Battery Status**

Use the battery icon in the Status bar to see the charge level of your battery. If you want more detailed information on your battery, such as usage time, charge remaining on the battery, or battery health information, open the **Settings** app and tap **Battery**.

**Battery Status Icons**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="1" alt="Battery icon" /></td>
<td>The battery charge is at 100%.</td>
</tr>
<tr>
<td><img src="2" alt="Battery icon" /></td>
<td>The battery charge is at 50%.</td>
</tr>
<tr>
<td><img src="3" alt="Battery icon" /></td>
<td>The battery charge is low. You need to charge or replace the battery soon.</td>
</tr>
</tbody>
</table>
The Battery status LED in the upper right corner of the computer indicates the charging status of the battery.

Honeywell Battery LED Behavior (Factory Default/Out-of-Box Configuration)

<table>
<thead>
<tr>
<th>Connected to Power</th>
<th>LED State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Blinking amber</td>
<td>Battery level is below 20%</td>
</tr>
<tr>
<td>No</td>
<td>Off</td>
<td>Battery level is more than 20%</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady amber</td>
<td>Battery level is between 0% and 60%</td>
</tr>
<tr>
<td>Yes</td>
<td>Blinking green</td>
<td>Battery level is between 60% and 95%</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady green</td>
<td>Battery level is above 95%</td>
</tr>
<tr>
<td>Either</td>
<td>Blinking red</td>
<td>Battery error</td>
</tr>
</tbody>
</table>

Change the Battery Status LED Behavior

You can change the behavior of the Battery status LED if the out-of-box behavior for a charging battery (blinking green) is not acceptable to your environment.

You can choose one of three options:

- Default Battery LED (optional Android OS configuration)
- Honeywell Battery LED (factory default, out-of-box configuration)
- No Battery LED

Use the Default Battery LED setting if you want the status LED to turn on steady amber and then steady green when charging. To learn more about this option, see Default Battery LED Behavior (Optional Android OS Configuration).
Select the No battery LED setting if you want to use the LED as a notification LED for applications or device management solutions. For more information on how to use the LED as a notification LED, see http://developer.android.com/guide/topics/ui/notifiers/notifications.html.

**Default Battery LED Behavior (Optional Android OS Configuration)**

<table>
<thead>
<tr>
<th>Connected to Power</th>
<th>LED State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Blinking red</td>
<td>Battery level is below 15%</td>
</tr>
<tr>
<td>No</td>
<td>Off</td>
<td>Battery level is 15% or more</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady red</td>
<td>Battery level is below 15%</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady amber</td>
<td>Battery level is between 15% and 90%</td>
</tr>
<tr>
<td>Yes</td>
<td>Steady green</td>
<td>Battery level is 90% or more</td>
</tr>
</tbody>
</table>

To change the battery status LED behavior:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Honeywell Settings** > **Battery LED**.
3. Choose one of these options:
   - Default Battery LED (optional Android OS configuration)
   - Honeywell Battery LED (factory default, out-of-box configuration)
   - No Battery LED

**Check the Battery Level and Usage**

In addition to the Battery status icon and LED, you can monitor the battery status from the Settings app.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Battery**.

   The current percentage of battery power remaining and the amount of usage time left on the battery appear on the screen. A list shows the battery usage for individual apps and services. For usage details, select one of the apps or services in the list. You can also access the Battery saver feature from the battery screen.
About Battery Life and Conservation

If you store the batteries outside of the computer for long periods of time, they slowly discharge. To maintain battery performance, storing the battery in a charger is recommended.

<table>
<thead>
<tr>
<th>When You Want to:</th>
<th>Do this to Save Battery Power:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use the computer and the low battery status icon appears or the battery light turns on.</td>
<td>• Connect the computer to a charging accessory.</td>
</tr>
<tr>
<td></td>
<td>• Replace the battery. See Replace the Battery.</td>
</tr>
<tr>
<td>Stop using the computer for 5 minutes or more.</td>
<td>Make sure that the low battery status icon is not on the screen and that the battery status LED is not on. Press and release the Power button to put the computer to sleep.</td>
</tr>
<tr>
<td>Store the computer for more than a day.</td>
<td>• If you are storing the computer for a few days (such as over the weekend), install a fully charged battery or connect the computer to a power source.</td>
</tr>
<tr>
<td></td>
<td>• If you are storing the computer for a longer period of time, remove and charge the battery. When the battery is done charging, store both the battery and the computer in a cool location.</td>
</tr>
<tr>
<td></td>
<td>• If you store the battery for several months, recharge the battery periodically to keep it at peak performance.</td>
</tr>
<tr>
<td>Store the battery outside of the computer.</td>
<td>Store the batteries in a charger.</td>
</tr>
</tbody>
</table>

Battery Recommendations and Safety Precautions

![Caution: Improper battery replacement or incompatible device usage may result in risk of burns, fire, explosion, or other hazard. Dispose of lithium-ion batteries according to local regulations. Risk of fire and burns if improperly handled. Do not open, crush, heat above 60°C (140°F), or incinerate.]

- For maximum battery life, charge the battery at 20 °C (68 °F) to 25 °C (77 °F) and store at 20 °C (68°F) with a 30-50% charge.
- Do not store the battery at temperatures above 60 °C (140 °F). Storage above 60 °C (140 °F) may damage the battery.
- Charge the battery before use. Battery ships with only a partial charge.
- See Battery Replacement on page 7 for approved charging methods. Use of this battery in other devices could result in damage to the device or battery.
- Avoid dropping the battery or computer. If you suspect that the battery or computer is damaged, send it to Honeywell service center for inspection.
- Replace the battery only with another CT50-BTSC model battery that matches the part number noted in the Battery Part Numbers (see page 6) section of this guide. These batteries have been tested in accordance with applicable safety
standards. Contact your Honeywell sales representative or distributor if this battery is no longer available.

**Warning: If you have a CT60 model certified for use in hazardous locations, read Important Information on page 5.**

- Discarded batteries may create a safety hazard. Before disposal, cover the battery contacts with electrical insulating tape.
- Do not modify the battery or attempt to insert foreign objects into it.
- Do not solder directly to the battery contacts.
- Do not drop the battery or apply mechanical shocks or pressure to it.
- Do not disassemble or open, crush, bend or deform, puncture, shred or burn the battery.
- Do not incinerate, microwave, throw into a fire, or expose batteries to temperatures above the documented maximum rating.
- Do not disassemble a battery or try to open or penetrate its housing.
- Do not immerse batteries into, or expose them to, water or seawater.

**Enable Airplane Mode**

If you do not need to connect to any wireless networks, you can enable Airplane mode to turn off the radios and save battery power.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Network & Internet**.
3. Tap **Advanced**.
4. Tap the toggle button next to **Airplane mode**. An airplane icon appears in the status bar to indicate Airplane mode is turned on.

**Power On the Computer**

After you have fully charged and installed a battery, power on the computer for the first time:

- Press and release the **Power** button.

**Welcome Screen**

The first time you power on the computer, a Welcome screen appears. You can either scan a configuration barcode or use the Wizard to manually set up the computer. To learn more about how to **Scan Barcodes**, see page 44. To learn more about configuring multiple devices using the Wi-Fi Staging app, see page 79.
During the manual setup process, follow the prompts on the screen as the wizard has you:

- set the default language.
- set up the Wi-Fi network connections.
- set the time, date, and time zone.
- personalize (name) the computer.
- set up security and privacy options.

Once you complete the Setup Wizard, the Welcome screen no longer appears when you power on the computer and Provisioning mode is automatically turned off (disabled). Scanning a barcode to install of applications, certificates, configuration files, and licenses on the computer is restricted. To learn more About Provisioning Mode, see page 78.

Unlock the Screen

The screen lock automatically activates every time the computer is turned on or when the computer wakes from sleep mode.

- Swipe up from the lock icon at the bottom of the screen.

The level of security provided depends on the type of lock set (e.g., Swipe, Pattern, PIN, or Password). The default setting (Swipe) provides no protection against unauthorized access to your computer.

Change the Screen Lock to Protect the Computer

After you start using the computer, you should change the screen lock to prevent unauthorized persons from accessing the computer without a password, pin, or pattern to unlock the touch screen once it has been locked.

The recommended setting for the Screen Lock is to enable a Password lock. Use a strong password value (e.g., include numbers, characters, special characters, and mix character case).

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Security & location > Screen lock.

3. Choose one of the following options:
   - None
   - Swipe
   - Pattern
   - PIN
   - Password
4. Follow the on-screen prompts to complete the setup.
5. Exit the Settings app.

Select a Touch Screen Profile to Optimize Performance

Optimize screen interactions by selecting a touch screen profile designed specifically for your use case. For example, if you wear gloves, set the touch screen profile to Glove use enhanced for the best touch screen response.

*Note:* Maximum glove thickness of 2 mm (0.08 inches) for touch screen response.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Honeywell Settings** > **Touch Screen Profile**.
3. Choose one of the following options:
   - **Normal mode**
   - **Finger enhance mode**
   - **Glove enhance mode**
   - **Stylus enhance mode**
   - **Screen protector mode** - For extreme performance units, this mode optimizes the touch panel tuning when the screen protector is applied.
4. Exit the Settings app.

Configure the Screen Backlight

The display has an ambient light sensor that automatically adjusts the backlight intensity to conserve power and ensure the display is readable. You can also manually set the backlight intensity if you do not want to use the automated adaptive brightness feature.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Display**.
3. Choose one of the following options:
   - To have the computer automatically adjust the brightness for your work environment, turn on the **Adaptive brightness** setting. You can tap **Adaptive brightness** to toggle the feature on or off.
   - To set the brightness level manually, verify the Adaptive brightness feature is turned off, and tap **Brightness level**. Adjust the slider to set the brightness level.
About the Good Read LED

The Good Read LED indicates the status of the scanner. To learn more about how to use and configure the imager engine for scanning, see Chapter 3: Use the Image Engine beginning on page 35.

Good Read LED Descriptions

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Good read of a barcode.</td>
</tr>
<tr>
<td>Blinking green</td>
<td>The data collection engine is processing or starting up.</td>
</tr>
</tbody>
</table>

About the Audio Features

The CT60 has a speaker, a microphone, and several software tools to configure sound volume or enable vibration feedback.

Adjust Speaker Volume

Use the volume buttons on the right side of the computer to adjust the volume of ringtones, media, notifications or alarms.

**Note:** The volume setting varies by OS version.

1. Press either the **Volume Up** or **Volume Down** button. The volume slider appears.
2. Depending on OS version:
   - Tap the down arrow ▼ to expand the options, or
   - Tap ⚙ for Sound Settings.
Enable Vibrate Mode

You can quickly enable Vibrate mode so the computer vibrates instead of emitting sound for notifications and rings. If you still want to hear alarms, turn on the Alarms only feature.

**Note:** *The Vibrate mode varies by OS version.*

Depending on OS version:

1. Press the Volume down button until the computer vibrates.
2. To turn on the Alarms only feature, press the Volume Down button again with the volume slider open.

OR

1. Press one of the Volume buttons until the volume slider appears.
2. Tap 🔔 to toggle between Vibrate, Off, and On.

The status bar at the top of the screen indicates the active mode:

- When Vibrate mode is active, 📣 appears.
- When Alarms only mode is active, the Do Not Disturb icon ⏰ appears.

Audio Settings

This section describes the audio and sound settings you can configure in the Settings app.

- To change audio settings, start the **Settings** app 🗼 and tap **Sound**.
### Sound Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media volume</td>
<td>Use the sliders to set the volume for media (e.g., music, videos, and games), calls, alarms and rings (notifications and ringtones).</td>
</tr>
<tr>
<td>Call volume</td>
<td></td>
</tr>
<tr>
<td>Ring volume</td>
<td></td>
</tr>
<tr>
<td>Alarm volume</td>
<td></td>
</tr>
<tr>
<td>Also Vibrate for calls</td>
<td>Set the phone to vibrate for incoming calls.</td>
</tr>
<tr>
<td>Do Not Disturb</td>
<td>Configure the Do not disturb feature.</td>
</tr>
<tr>
<td>Shortcut to prevent ringing</td>
<td>Set Press Power &amp; Volume Up together. Options include: Vibrate, Mute, and Do Nothing.</td>
</tr>
<tr>
<td>Phone ringtone</td>
<td>Set the phone ringtone.</td>
</tr>
<tr>
<td>Default notification sound</td>
<td>Set the default sound used for notifications.</td>
</tr>
<tr>
<td>Advanced</td>
<td>Select to expand the settings menu.</td>
</tr>
<tr>
<td>Default alarm sound</td>
<td>Set the default sound used for alarms.</td>
</tr>
<tr>
<td>Other sounds and vibrations</td>
<td>Turn sounds On or Off for:</td>
</tr>
<tr>
<td></td>
<td>• Dial pad tones</td>
</tr>
<tr>
<td></td>
<td>• Screen locking sounds</td>
</tr>
<tr>
<td></td>
<td>• Charging sounds</td>
</tr>
<tr>
<td></td>
<td>• Touch sounds</td>
</tr>
<tr>
<td></td>
<td>• Touch Vibrations</td>
</tr>
</tbody>
</table>

### Insert a microSD Card

You can use a microSD card to increase file storage capacity or to install software. Honeywell recommends the use of Single Level Cell (SLC) industrial grade microSD or microSDHC memory cards with the computer for maximum performance and durability.

**Warning:** If you have a CT60 model certified for use in hazardous locations, read Important Information on page 5.

**Note:** Format the memory card before initial use.

1. Save your files and close any open applications.
2. Press and hold the **Power** button until the options menu appears.
3. Tap **Power Off**.
4. Disconnect one end of the hand strap from the computer.

5. Press and hold down the small button on the battery latch, and then slide the latch toward the bottom of the computer to unlock the battery.

6. Lift up on the edge of the battery and remove it from the computer.
7. Lift up the edge of the SD card access door.

8. Press down gently and slide the card holder toward the open access door. Lift the edge of the holder up.

9. Insert the microSD card into the card holder with the contacts facing out.
10. Close the holder with the card inserted. Press down gently on the card holder and slide it into the locked position.

11. Close the SD card access door.

12. Install the battery and slide the battery latch toward the top of the computer to engage the lock.

13. Install the hand strap, and then turn on the computer.
How to Transfer Files

To transfer files you need to physically connect the CT60 mobile computer to your workstation (e.g., laptop or desktop computer) through a USB connection. When the mobile computer is connected and USB is configured for file or photo transfer, use a file browser (e.g., File Explorer or Windows Explorer) on your workstation to transfer files between the two computers. If you are transferring files to and from a Mac, use the Android File Transfer application (available from www.android.com/filetransfer).

Note: File transfer through a USB connection is disabled by default. You need to configure the USB connection for transferring files or photos.

You can use these accessories to connect your mobile computer to your workstation:
- HomeBase or eHomeBase, and a standard USB Type B to A cable
- USB adapter

Configure USB Connection and Transfer Files

Note: The CT60 supports Hi-Speed USB communications (USB 2.0) with a maximum data transfer rate of 480 Mbps.

1. Connect the CT60 to your workstation.
2. On the CT60, swipe down from the top of the screen to see the notifications.
3. Tap Android System notification twice, to open the options menu.
4. Select either File Transfer or PTP (Transfer photos).
5. Open the file browser on your workstation.
6.Browse to the CT60. You can now copy, delete, or move files between the CT60 and your workstation.

Accessories for the Computer

The Dolphin CT60 ships with a battery, hand strap and stylus. All other accessories are ordered and shipped separately. For help, contact your local sales representative.

Note: Dolphin CT60 mobile computers are compatible with most Dolphin CT50 accessories. Check with your local sales representative about accessory compatibility before ordering.
<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>eHomeBase (Model CT50-EB, CT50-EB-P)</td>
<td>Use the eHomeBase to hold a computer with a battery installed, charge a spare battery pack, charge the main battery pack, and provide power to the mobile computer. The eHomeBase has a USB client connector (Type B) as well as an Ethernet connector.</td>
</tr>
<tr>
<td>HomeBase (Model CT50-HB, CT50-HB-P)</td>
<td>Use the HomeBase to hold a computer with a battery installed, charge a spare battery pack, charge the main battery pack, and provide power to the mobile computer. The HomeBase has a USB client connector (Type B).</td>
</tr>
<tr>
<td>ChargeBase (Model CT50-CB, CT50-CB-P)</td>
<td>The ChargeBase is a 4-slot charging cradle that can power four computers, and charge their main batteries in 6 hours.</td>
</tr>
<tr>
<td>NetBase (Model CT50-NB, CT50-NB-P)</td>
<td>The NetBase enables up to four computers to communicate with a host device over an Ethernet network. The Net Base also provides a second RJ45 Ethernet port for connection to an additional device such as a printer, workstation, or another Net Base.</td>
</tr>
<tr>
<td>Vehicle Power Adapter (Model CT50-MC, CT50-MC-P)</td>
<td>Use the vehicle power adapter to charge the battery installed in the computer from the accessory port in your vehicle.</td>
</tr>
<tr>
<td>Vehicle Dock (Model CT50-MB, CT50-MB-P)</td>
<td>Use the vehicle docks to hold and charge the computer while using it on a vehicle. The vehicle dock also contains a USB host port.</td>
</tr>
<tr>
<td>Quad Charger (Model CT50-QBC, CT50-QBC-P)</td>
<td>Use the quad charger to charge up to four batteries.</td>
</tr>
<tr>
<td>USB Adapter (Model CT50-USB, CT50-USB-P)</td>
<td>Use this snap-on adapter to connect to a USB port for transferring data or charging your computer.</td>
</tr>
<tr>
<td>Scan Handle</td>
<td>Attach the scan handle to the CT60 mobile computer for easier grip and trigger action when scanning labels.</td>
</tr>
<tr>
<td>DEX Adapter (Model DEX-BLE-1)</td>
<td>Use the DEX adapter to easily connect to direct store delivery (DSD) receiving systems including DEX/UCS store systems, vending machines, and other retail equipment.</td>
</tr>
<tr>
<td>Holster</td>
<td>Use the holster to carry the computer hands-free in the work environment. You can choose between three different holsters.</td>
</tr>
</tbody>
</table>
Use this chapter to learn about the user interface and how to interact with the screen. You can also use this chapter to learn about the Honeywell applications on the computer.

**About the User Interface**

The Android operating system provides a touch-friendly and easy-to-navigate user interface. When you turn on the mobile computer, the Home screen is the first screen that appears after language provisioning and the startup wizard is complete.
Home Screen Features

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notifications panel /</td>
<td>Status icons to the left tell you when an app has sent notifications, such as an arriving message. System icons to the right display the current wireless and network connection state and battery level. Status bar</td>
</tr>
<tr>
<td>Search bar</td>
<td>Search the Internet or the computer using Google™. Touch the microphone icon in the search box to initiate a voice search or command.</td>
</tr>
<tr>
<td>Home Screen Panel</td>
<td>You can create more than one custom Home screen panel. Swipe left or right on the Home to switch between your custom panels.</td>
</tr>
<tr>
<td>Favorites tray</td>
<td>App icons in the customizable tray are visible on all Home screen panels.</td>
</tr>
</tbody>
</table>

Navigation and Function Buttons

Your mobile computer has virtual buttons on the front panel below the Favorites tray and hardware buttons located on the sides for easy navigation and quick feature access when using the computer.

**Navigation and Function Buttons**

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>← or ←</td>
<td>Back Return to the previous screen.</td>
</tr>
<tr>
<td></td>
<td>Recent Apps View and switch between recently used apps.</td>
</tr>
<tr>
<td></td>
<td>Home Return to the Home screen.</td>
</tr>
<tr>
<td></td>
<td>Search Start a search on the computer or the Internet.</td>
</tr>
<tr>
<td></td>
<td>Volume Raise or lower the volume of the speaker.</td>
</tr>
<tr>
<td></td>
<td>Scan Press the right or left scan button to trigger the scanner.</td>
</tr>
<tr>
<td></td>
<td>Camera Press to open the camera app and take a photo.</td>
</tr>
</tbody>
</table>
About Status Bar Icons

Status and notification icons show you the current status of your network, the battery, notifications, and sounds. Use the table below to understand some of the most common icons.

### Status and Notification Icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🕒</td>
<td>Pending alarm and Alarm is set</td>
<td>🔔</td>
<td>Vibrate mode is turned on</td>
</tr>
<tr>
<td>📬</td>
<td>New text message or multimedia message</td>
<td>🛩</td>
<td>Airplane mode is turned on.</td>
</tr>
<tr>
<td>🚨</td>
<td>Error with text or multimedia message delivery</td>
<td>🔊</td>
<td>Bluetooth is turned on.</td>
</tr>
<tr>
<td>⌚</td>
<td>New email</td>
<td>⚫</td>
<td>SD card is full</td>
</tr>
<tr>
<td>🖼️</td>
<td>Computer is connected to a PC with a USB cable</td>
<td>⚫️</td>
<td>Wi-Fi network connected with full signal strength</td>
</tr>
<tr>
<td>🔍</td>
<td>Synchronizing data</td>
<td>⚫️️</td>
<td>Wi-Fi network connected but no signal strength</td>
</tr>
<tr>
<td>🔴</td>
<td>Error with sync or sign-in</td>
<td>🔴️</td>
<td>Phone connected with full amount of bars.</td>
</tr>
<tr>
<td>⚡️</td>
<td>Computer is connected with Ethernet</td>
<td>⚡️️</td>
<td>Phone connected with full amount of bars but no Internet connection.</td>
</tr>
</tbody>
</table>

Remap a Button

You can change the default function of the Left Scan, Right Scan, or Camera buttons as well as the Back, Recent, Home, and Search virtual buttons.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **Settings 🛠 > Honeywell Settings > Key Remap**.

3. Tap the plus sign (+).

4. Press the button you want to remap or select one of the virtual buttons.

5. Tap **OK**.

6. Select one of the following options:
   - Tap **Keys** to view available functions. Select the function you want assigned to the button.
   - Tap **Apps** to view available applications. Select the application you want assigned to the button.
   - Tap **Actions** to enter an Intent or Broadcast. Tap **OK** to assign the action to the button. For example, to send a Broadcast,
• Tap **Text** to type characters to display when the remapped key is pressed. Use a comma “,” to separate the characters. Tap **OK** to assign the text to the button. Examples are listed below:

<table>
<thead>
<tr>
<th>Input Text</th>
<th>Button Press</th>
</tr>
</thead>
<tbody>
<tr>
<td>A,A,B</td>
<td>aab</td>
</tr>
<tr>
<td>SHIFT_LEFT,A,SHIFT_LEFT,B or CAPS_LOCK,A,CAPS_LOCK,B</td>
<td>AB</td>
</tr>
<tr>
<td>SHIFT_LEFT,1</td>
<td>!</td>
</tr>
<tr>
<td>CTRL_LEFT,A</td>
<td>(Select All)</td>
</tr>
<tr>
<td>VOLUME_UP</td>
<td>(Volume Up)</td>
</tr>
</tbody>
</table>

**Note:** Lower case text is not supported in the **Text** field. Text must be entered in upper case. For example, “H,e,l,l,o” will display as “h”, whereas “H.E.L.L.O” will display as “hello”.

7. Tap **Keys** or **Applications** to view the available functions.
8. The function you selected now appears next to the button name.

**Restore Default Button Action**

To restore the button default action:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Honeywell Settings** > **Key remap**.
3. Tap the clean icon 
4. Choose the remapped button(s) you want restored to the default setting.
   • Tap the check box next to the button.
   OR
   • Tap **All Select** to choose all the buttons.
5. Tap **Delete**.

**View and Manage Notifications**

You can view recent events on the computer, manage system notifications, change a setting or quickly respond to an app notification by opening the notifications panel.
When a notification icon appears in the status bar at the top of the screen:

1. Swipe down from the top of the screen to open the notifications panel.
2. Respond to the notification. You can take one of the following actions:
   • Tap the notification to open the associated app.
   • Tap a quick-reply or action command (e.g., Reply, Archive) if available.
   • Swipe the notification sideways, off the screen to dismiss it. Note that some notifications cannot be dismissed.
   • Slide the notification left or right to reveal the settings icon. Choose between **Show notifications silently**, **Don’t silence**, or **More Settings**.

To close the notification panel, swipe up from the bottom of the screen, or tap the Back or Home buttons.

**Open Quick Settings**

Use the Quick Settings screen to quickly access common settings. Tap an icon to toggle the feature on/off or to open additional settings.

• To open Quick Settings, swipe down twice from the status bar at the top of the screen.
• To close Quick Settings, tap the top of the screen, Back or Home buttons.

**Customize the Home Screen**

You can add application icons to any Home screen for easier access.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap and hold the app you want to add.
3. Drag and drop the app icon onto the Home Screen panels.
   • If you want to add another home screen, drag the icon to the right edge of the screen before releasing the icon.
   • If you want to create a folder, drag and drop the icon on top of another icon.

*Note:* If you tap and hold an app but do not move it, a shortcut menu appears. The content of the menu depends on the app selected.

To add widgets or customize the look of the Home screen:

1. Tap and hold an empty section of the Home screen.
2. Select either **Wallpapers**, **Widgets**, or **Home Settings**.
Customize the Favorites Tray

Modify the Favorites tray to contain the apps you use the most.

1. Tap and hold the app icon you want to replace on the Favorites tray.
2. Drag and drop the app on “X Remove” at the top of the screen.
3. Swipe up from the bottom of the screen to access all apps.
4. Tap and hold the icon of the app you want to add.
5. Drag and drop the icon into position on the Favorites tray.

Use Google™ Search

Use the Google Search field on of the Home screen to help you find anything you need on the computer or on the web.

1. On the Home screen, tap inside the Google Search box and begin to type your search term.
   
   As you type, suggestions from Google web search appear below the Search box, and results from the computer (such as apps or contacts) appear below the web search results.

2. Tap a suggestion to search for it immediately, or touch the arrow to add the term to the search field without starting to search.

About Screen Gestures

Use your fingers or the stylus to manipulate icons, buttons, menus, the on-screen keyboard, and other items on the screen.

- **Tap**
  
  Tap to select something, toggle a setting on or off, or activate a field for text entry. An on-screen keyboard automatically appears for text entry.

- **Tap and hold**
  
  Tap and hold an item but do not lift your finger or stylus until an action occurs.

- **Drag and drop**
  
  Tap and hold an item, and then slide your stylus or finger across the screen until you reach the target position. Lift your finger or stylus off the screen to drop the item in place.

- **Swipe**
  
  Quickly move your finger across the screen, without pausing when you first touch. For example, you can swipe a Home screen left or right to view the other Home screens.
• **Slide**
   Slowly move your finger across the screen, without pausing when you first touch. For example, you can slide a notification to the left until the Settings gear is revealed.

• **Double-tap**
   Tap quickly twice on a web page, map, or other screen to zoom in. Double-tap again to zoom out.

• **Pinch**
   In some apps, you can zoom in and out by placing two fingers on the screen at once and pinching them together (to zoom out) or spreading them apart (to zoom in)

---

**Set the Time Zone**

The computer gets the current date and time from its network connection. If preferred, you can change this behavior and manually set the time zone for your location.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings > System > Date & time**.
3. Tap **Automatic time zone** to turn off the feature.
4. Tap **Select time zone** and choose the time zone for your location.
About Honeywell Applications

Honeywell applications help you troubleshoot and connect your computer to other devices and networks. Some of the applications in this table are located in the Power Tools app. To learn more about Honeywell Power Tools, go to www.honeywellaidc.com to download the Dolphin Power Tools User Guide.

Honeywell Applications Available on the Computer

<table>
<thead>
<tr>
<th>Icon</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Disk" /></td>
<td>AutoInstall Settings</td>
<td>Enable the AutoInstall feature, to automatically install *.zip or *.apk files containing applications saved in the Internal shared storage\honeywell\autoinstall folder and IPSM card\honeywell\autoinstall folder on the computer during the power-up boot or reboot process.</td>
</tr>
<tr>
<td><img src="image" alt="Box" /></td>
<td>Demos</td>
<td>Honeywell Demo apps demonstrate the basic capabilities of the computer and are not intended as functional business solutions. The demos included, demonstrate scanning, signature capture, NFC functionality, and printing via Bluetooth technology. Information on how to create custom applications for your Honeywell mobile computer can be found in the Honeywell Software Development Kit (SDK) for Android, available from the Technical Support Downloads Portal.</td>
</tr>
<tr>
<td><img src="image" alt="Refresh" /></td>
<td>HUpgrader</td>
<td>Use the HUpgrader app to view the current OTA version on the computer, check for updates, or initiate an OTA upgrade from storage.</td>
</tr>
<tr>
<td><img src="image" alt="Scanner" /></td>
<td>Scanner Edge</td>
<td>Use the Scanner Edge app to connect or disconnect a Bluetooth scanner.</td>
</tr>
<tr>
<td><img src="image" alt="SIM" /></td>
<td>SIM Selection</td>
<td>The SIM Selection app only appears on CT60L1N models equipped with dual SIM slots. Use the SIM Selection app to configure and switch between two SIM cards installed in the computer.</td>
</tr>
</tbody>
</table>

Dolphin Power Tools

<table>
<thead>
<tr>
<th>Icon</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Battery" /></td>
<td>BattMon</td>
<td>BattMon provides information on the charge status and health of the battery, and provides access to activate battery status notifications and battery charging history logs.</td>
</tr>
<tr>
<td><img src="image" alt="Android" /></td>
<td>Config Apps</td>
<td>Config Apps displays, releases and renews IP parameters and supports configurations for static IP addresses.</td>
</tr>
<tr>
<td><img src="image" alt="Play" /></td>
<td>Configure Autorun</td>
<td>Configure Autorun provides the ability to set applications to automatically run after a reboot.</td>
</tr>
</tbody>
</table>
Applications You Can Download to the Mobile Computer

You can download Honeywell applications to extend the capabilities of the computer. You may need to purchase a license to run some applications. To learn more about the applications described in this section and other Honeywell software solutions, go to www.honeywellaidc.com > Browse Products > Software.

About Honeywell Enterprise Browser

Enterprise Browser is a locked-down enterprise Web client application designed for Honeywell computers. It provides a controlled Web application environment that helps enterprises increase productivity and reduce IT management expenses. You can configure Enterprise Browser for your specific application requirements and design custom web applications that run through the Enterprise Browser to provide your users with an easy-to-use yet controlled experience.

If Enterprise Browser is not included on your computer model, you can download a trial version for evaluation. After the evaluation period expires, you need to purchase a license. For more information about Enterprise Browser, visit www.honeywellaidc.com.

About Honeywell Launcher

Launcher is a configurable locked-down menu program designed for Honeywell computers that prevents end-users from accessing the start menu and other non-authorized applications. Use Launcher to provide a platform where your mobile

<table>
<thead>
<tr>
<th>Icon</th>
<th>Application</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚙️</td>
<td>Diagnostic Information</td>
<td>Diagnostic Information provides access to system statistics, notifications and version information about the computer.</td>
</tr>
<tr>
<td>🔄</td>
<td>EZConfig</td>
<td>EZConfig supports advanced customization and configuration of the hand held computer. EZConfig includes a standard XML editor and configuration barcode scanner feature.</td>
</tr>
</tbody>
</table>
| 📣   | WiFi Diagnostic | Use application to:  
  - View Wi-Fi radio status information about a connected access point or a list of other available access points in range of the Wi-Fi radio.  
  - Use the Route utility to view packet destination gateway information across the subnets.  
  - Use the IPConfig utility to view IP parameters for the onboard network adapters.  
  - Use the Ping utility to verify communication links or to make sure a specific IP address is working. |
| ☑️   | Wireless Tether | Use to enable range tracking and customize out-of-range alerts for Bluetooth devices paired and tethered to your hand held computer. |
computer users are limited to running only company-approved applications and prevent them from initiating unauthorized configuration changes. You can also use Honeywell Launcher together with Honeywell Enterprise Browser to create a single-purpose device configuration.

If Launcher is not included on your computer model, you can download a trial version of the software for evaluation. After the evaluation period expires, you need to purchase a license. For more information about Launcher, visit www.honeywellaidc.com.

**About Terminal Emulators**

Honeywell offers several terminal emulator solutions that allow users to manage their mobile devices by providing reliable data transfer between the host mobile device and terminal. Terminal emulators can be used for remote management and configuration of devices, data collection and analysis, and session management.

Depending on the computer model, a terminal emulator may come preinstalled on the device. If a terminal emulator is not included on your model, you can download a trial version for evaluation. After the evaluation period expires, you need to purchase a license. For more information, visit www.honeywellaidc.com.

**Unlock Developer Options**

Developer options only appear in the Settings app if you unlock the feature. If you are a developer working with the computer, you can easily unlock the additional settings to use for testing and debugging applications under development for the computer.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings > System > About phone**.
3. Tap **Build number** seven times. A message appears informing you that you are now a developer.
4. Open **Settings** and scroll to the bottom of the list.
5. Tap **Developer options**.
Use this chapter to understand how to scan barcodes, configure the scan settings, and capture images using the integrated image engine in the computer.

**About the Image Engine**

You can use the image engine in the computer as a scanner or camera. There are three engine options for the CT60:

- N6603
- N6703
- N6803

*Note:* The availability of choosing an image engine depends on the model/SKU type. See Specifications for more information.

Use the imager as a scanner to read 1D and 2D barcode symbologies, composite symbologies, and postal codes. It also supports omni-directional scanning for greater flexibility in real-world settings. By default, the scanner feature is enabled and uses the default scan profile. You can modify the **Default Profile** or create new profiles for custom applications from **Settings > Honeywell Settings > Scanning**.

Use the imager as a camera to capture black and white images, such as signatures or pictures of damaged inventory.

*Note:* Instead of using the internal imager, you can also use Bluetooth communications to connect the computer to an external scanner, such as the Granit™ 1981i and 1911i.

**About the Scan Wedge Feature**

The scan wedge feature sends scanned barcode data to an active application as Android keypad input. To scan a barcode as keyboard input, open an application that accepts text input and then scan a barcode. You can use applications that are
coded to use the scanner or applications that receive data through the scan wedge feature. If an application claims the scanner through the BarcodeReader API, the scan wedge feature is temporarily disabled.

You can find information on how to create custom applications for the computer in the Software Development Kit (SDK) available for download from the Technical Support Downloads Portal at https://hsmftp.honeywell.com. Once you create an account and enter the portal, navigate to Software > Software and Tools > Developer Library > SDKs for Android.

Change the Scanner Settings

Changes you make to the Default profile apply to all applications with no profile assigned.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Honeywell Settings > Scanning.

3. Tap Internal Scanner > Default Profile.

4. Select from the following:
   - Data Processing Settings,
   - Symbology Settings,
   - Decode Settings,
   - Imager Settings,
   - Trigger Settings, or
   - Notification Settings.

5. Modify the settings to meet your application needs.

To learn more about the scanner settings, see Default Scan Settings on page 37.

Change the Bluetooth Scanner Settings

When the Bluetooth scanner is paired, changes can be made to the Default profile for the scanner.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Honeywell Settings > Scanning.

3. Tap Bluetooth Scanner > Default Profile > Data Processing Settings.

4. Modify the settings to meet your application needs.

To learn more about the scanner settings, see Data Processing Settings on page 37.
Restore Default Scan Settings

You can easily discard all changes you made to the Default profile and restore the default values.

**Note:** When you choose the *Restore all defaults* option from a settings screen in a profile, all the settings in that profile return to their default values.

1. Open the Default profile.
2. Tap ☰ in the upper right corner of any of the scan settings screens for the profile.
3. Tap *Restore all defaults*.

Default Scan Settings

Use the following sections to understand the scan settings available for scanner profiles. To learn how to create a new profile, see page 42.

Data Processing Settings

Use the Data Processing Settings to specify how barcode data is processed by the computer.

**Data Processing Settings**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wedge</td>
<td>Enable or disable the scan wedge feature.</td>
<td>Enabled</td>
</tr>
<tr>
<td>Wedge Method</td>
<td>Select <strong>Standard</strong> when character messages have to use a delay in between barcodes or <strong>Keyboard</strong> when a simulated key press is needed.</td>
<td>Standard</td>
</tr>
<tr>
<td>Charset</td>
<td>Select the character set to use when interpreting the barcode data into a string.</td>
<td>ISO-8859-1</td>
</tr>
<tr>
<td>Prefix</td>
<td>Defines the string added before the decoded barcode data. Substitutions occur within the Prefix string values.</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substring</th>
<th>Replacement Character Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>\r</code></td>
<td>13</td>
</tr>
<tr>
<td><code>\n</code></td>
<td>10</td>
</tr>
<tr>
<td><code>\t</code></td>
<td>9</td>
</tr>
<tr>
<td><code>\</code></td>
<td>“\”</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Suffix</td>
<td>Defines the string added after the decoded barcode data. Substitutions occur within the Suffix string values.</td>
</tr>
<tr>
<td></td>
<td>Substring</td>
</tr>
<tr>
<td></td>
<td>Substring</td>
</tr>
<tr>
<td></td>
<td>Substring</td>
</tr>
<tr>
<td></td>
<td>Substring</td>
</tr>
<tr>
<td></td>
<td>Substring</td>
</tr>
<tr>
<td>Wedge as Keys</td>
<td>List of character values to wedge as keys, represented as a comma-separated list of decimal values.</td>
</tr>
<tr>
<td>Data Editing Plugin</td>
<td>Specify a data editing plug-in and edit plug-in settings.</td>
</tr>
<tr>
<td>Symbology Prefix</td>
<td>Specify a symbology identifier prefix to the barcode data. Options include:</td>
</tr>
<tr>
<td></td>
<td>• None</td>
</tr>
<tr>
<td></td>
<td>• Honeywell</td>
</tr>
<tr>
<td></td>
<td>• AIM</td>
</tr>
<tr>
<td>Launch Browser</td>
<td>Enable or disable URL barcode handling. If a barcode starts with http:// or https://, the browser opens using the barcode data as a URL.</td>
</tr>
<tr>
<td></td>
<td>Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH-BROWSER</td>
</tr>
<tr>
<td>Scan to Intent</td>
<td>Enable or disable special handling of scan-to-intent barcodes.</td>
</tr>
<tr>
<td></td>
<td>Applies to barcodes in one of the following formats:</td>
</tr>
<tr>
<td></td>
<td>‘//’ ACTION</td>
</tr>
<tr>
<td></td>
<td>‘//’ ACTION ‘$’ extra-data</td>
</tr>
<tr>
<td></td>
<td>Where: ACTION and extra-data are any string of characters.</td>
</tr>
<tr>
<td></td>
<td>Launches an application listening for the intent. Intent action:</td>
</tr>
<tr>
<td></td>
<td>“com.honeywell.scantointent.intent.action.” + ACTION</td>
</tr>
<tr>
<td></td>
<td>Intent extra:</td>
</tr>
<tr>
<td></td>
<td>“com.honeywell.scantointent.intent.extra.DATA” contains the remainder of the barcode data after the first ‘$’ character.</td>
</tr>
<tr>
<td></td>
<td>Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_SCAN_TO_INTENT</td>
</tr>
<tr>
<td>Launch EZ Config</td>
<td>Enable or disable special handling of EZConfig barcodes.</td>
</tr>
<tr>
<td></td>
<td>Applies to EZConfig barcodes that are encoded with the Aztec symbology and contain specific header data.</td>
</tr>
<tr>
<td></td>
<td>Corresponds to BarcodeReader property: PROPERTY_DATA_PROCESSOR_LAUNCH_EZ_CONFIG</td>
</tr>
</tbody>
</table>
Symbology Settings

Use the Symbology Settings to enable or disable barcode symbologies for the selected scan setting profile.

- Tap the check box next to a symbology name to enable (check mark) or disable (no check mark) decoding for that symbology.
- Tap the symbology name to view and modify additional configuration parameters for the symbology selected.

To view a list of default settings for supported symbologies, see page 94.

Decode Settings

Adjust the Decode Settings when scanning barcodes that are densely packed or poor quality.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Intent</td>
<td>Enables the reception and processing of barcode data without using an SDK or library.</td>
<td>Disabled</td>
</tr>
</tbody>
</table>
## Decode Settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Decode</td>
<td>When enabled, the imager scans and decodes a barcode only if part of the barcode is at the center of the aimer window. This is useful in situations where several barcodes may be very close together in the imager field-of-view.</td>
<td>Disabled</td>
</tr>
<tr>
<td></td>
<td>• Tap the check box to toggle the feature on or off.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Select <strong>Center Decode</strong> to adjust the Window dimensions.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Honeywell recommends leaving the settings at 50 (default) to define the “center” area for the barcode.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Configurable parameters:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Window top</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Window bottom</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Window left</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Window Right</td>
<td></td>
</tr>
<tr>
<td>Decode Security</td>
<td>Use this setting to control the reading tolerance of the decoder. Lower settings are more lenient when reading low quality barcodes while higher values are more strict.</td>
<td>2</td>
</tr>
<tr>
<td>Decode Filter</td>
<td>Use this setting to modify or reject data strings.</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>• Decode Filter Script</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Defines the string of text from the filter script. The script is included in the DataCollectionService.xml settings file.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Debug Level</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Set the filter information level. The default level is 0, no information. Higher levels emit more information. Level 4 emits the most information.</td>
<td></td>
</tr>
<tr>
<td>Poor Quality 1D Reading</td>
<td>Enable this setting when scanning damaged or badly printed 1-D barcodes to improve barcode read success.</td>
<td>Disabled</td>
</tr>
<tr>
<td>Video Mode</td>
<td>Use this setting to specify whether normal or inverse decoding for linear symbologies is enabled during the execution of Decode. By default normal video is enabled. Options include:</td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>• Normal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Inverse</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Normal and Inverse</td>
<td></td>
</tr>
<tr>
<td>DPM mode</td>
<td>Use this setting when scanning Direct Part Marking (DPM) barcodes that are etched or imprinted directly into the surfaces of materials including metal and plastic.</td>
<td>No DPM optimization</td>
</tr>
<tr>
<td></td>
<td>Options include:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• No DPM optimization</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Dotpeen DPM decoding</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Reflective DPM decoding</td>
<td></td>
</tr>
</tbody>
</table>
**Imager Settings**

You should not need to modify the Imager Settings. The *Override Recommended Values* setting is disabled by default. The recommended Imager Settings are designed to work in a wide range of environments and should only be modified if you have an advanced understanding of imagers.

**Trigger Settings**

Use the Trigger Settings to configure how the scan buttons work.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Scan Trigger</td>
<td>Enable or Disable activating the imager by pressing the side scan buttons or the virtual Scan button in the Scan Demo app.</td>
<td>Enabled</td>
</tr>
<tr>
<td>Scan delay</td>
<td>Set the minimum amount of time in seconds before the scanner can read another barcode.</td>
<td>0</td>
</tr>
<tr>
<td>Decode Timeout</td>
<td>Set the number of seconds before the scanner automatically turns off if the scan button is pressed and nothing has successfully decoded.</td>
<td>20</td>
</tr>
</tbody>
</table>
Use the Notification Settings to configure how your computer responds when you scan a barcode.

**Add a Scan Setting Profile**

To create a scan setting profile for a custom app on the computer:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Honeywell Settings** > **Scanning** > **Internal Scanner**.
3. Tap ☉ in the upper right corner of the app screen.
4. Take one of the following actions:
   - Tap the profile name field, and then add a new name.
   - OR
   - Tap the **select an application** option, and then choose an app from the list.

The new profile appears on the Internal Scanner profile list. You can now select and modify the scan settings for the new profile.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
</table>
| Trigger Scan Mode        | Set read behavior on scan button press. Options available: • One Shot  
 • Continuous  
 • Read on release  
 • Read on second trigger press                                                                                                                                                                      | One Shot |
| Same symbol timeout      | Set the minimum buffer time in seconds before the scanner reads the same barcode. This can be adjusted to prevent inadvertent scans of the same barcode if the code is left in the scan field longer than the Decode Timeout limit. The default same symbol timeout is 1000 seconds. | Disabled |

**Notification Settings**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good Read Notification</td>
<td>Enables or disables a good read notification. The notification consists of a green blink of the Good Read LED, a short beep, and an optional short vibration.</td>
<td>Enabled</td>
</tr>
<tr>
<td>Bad Read Notification</td>
<td>Enables or disables notification of a failed scan. The notification consists of a red blink of the Good Read LED, an error beep, and an optional short vibration.</td>
<td>Disabled</td>
</tr>
<tr>
<td>Vibrate On Notification</td>
<td>Enables or disables whether the computer vibrates when there is a good or bad read.</td>
<td>Disabled</td>
</tr>
</tbody>
</table>
Delete a Scan Setting Profile

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Honeywell Settings** > **Scanning** > **Internal Scanner**.
3. Tap and hold the profile you want to delete, and then select **Delete**.

About the Optional Digital Scan Button

By default, the imager is enabled for scanning with the left and right scan buttons configured to trigger the imager. If your application environment requires use of an onscreen scan button, enable the Digital Scan Button feature in the Settings app. Once enabled, you can then modify the appearance of the onscreen Scan button and select the apps the button appears in.

Enable and Configure the Digital Scan Button

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Honeywell Settings** > **Digital Scan Button**.
3. Tap **Enable Digital Scan Button** to turn the feature on. A preview of the button appears at the bottom of the screen.
4. Configure the button appearance. As you adjust the settings, the preview of the button updates.
   - Tap **Select Button Size**, and then choose Small, Medium or Large.
   - Tap **Select Button Color** and then choose from seven color options. Default color is black. Tap a dot to select the color, and then select **OK** to confirm.
   - Use the slider under **Transparency Level** to adjust how transparent the button appears on the application screen.
5. Drag the preview button to the location where you want it to appear on the screen. Once you have positioned the button, tap the **Set Button Location** toggle button to lock it into position.
6. Tap **Choose Application**.
7. Check the box next to all the applications where you want the digital scan button to be available.
8. Select **OK**.
9. Tap the **Back** to return to the Settings screen.
The digital scan button appears on the screen when you open any of the apps you selected during the button setup, see example below.

Tap and hold the button to activate the imager and scan a barcode.

Scan Barcodes

By default, the computer imager is enabled for scanning. It supports omni-directional (360°) barcode scanning and an aiming beam is provided to help assist with targeting barcodes.

Before you start scanning barcodes, go into Settings > Honeywell Settings > Scanning > Internal Scanner and modify the scan profile to enable only the barcode symbologies that you need. By reducing the active symbology list, you can increase scan speed.

1. Point the scanner window at the barcode. For optimum performance, avoid reflections by scanning the barcode at a slight angle.
2. Press and hold either side Scan button.
3. Center the aiming beam over the barcode. Make sure the entire barcode is inside of the illumination frame.

4. Release the Scan button when the computer beeps, and the Good Read LED briefly turns on. The barcode information is entered into the application in use.

**Note:** Not all barcode symbologies are enabled by default. If a barcode does not scan, the correct symbology may not be enabled.

### About Scanning Configuration Barcodes

After completing the out-of-box set up process, Provisioning mode is automatically turned off. Scanning a barcode to install applications, certificates, configuration files, and licenses on the computer is restricted unless you enable Provisioning mode in the Settings app.

To learn more About Provisioning Mode, see page 78.

### Use the Scan Demo App

Use the Scan Demo app to read barcodes, or to test your symbology decode settings.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Demos**.
3. Swipe left or right on the screen until **Scan Demo** appears under the turntable. Tap the center of the box image to open the app.
4. Point the scanner window at the barcode.
5. Press and hold either side Scan button or tap **Scan** on the computer screen.
6. Center the aiming beam over the barcode. Make sure the entire barcode is inside of the illumination frame.
7. Release the Scan button when the computer beeps, and the Good Read LED briefly turns on. Barcode information appears on the screen.

**Note:** In the Scan Demo app, not all barcode symbologies are enabled by default. If a barcode does not scan, the correct symbology may not be enabled.

**Change the Scan Demo Symbology Settings**

1. In the Scan Demo app, tap ☰ in the upper right corner of the screen.
2. Select **Symbology Settings**.
3. Modify the symbology parameters.
   - Tap the check box next to a symbology name to enable (check mark) or disable (no check mark) decoding for that symbology.
   - Tap the symbology name to view and modify additional configuration parameters for the symbology selected.
4. Tap **Back** to return to the Scan Demo app.

**Use the Imager as a Flashlight**

To use the imager as a flashlight.

1. Open Quick Settings (see page 29).
2. Tap the **Flashlight** icon to turn the flashlight on.
3. Select the icon again to turn the flashlight off.
You can use the phone feature to make and receive phone calls and establish mobile data connections through wireless wide-area networks (WWANs).

**Note:** Phone and mobile data features are only supported on CT60 WWAN models (CT60L1N).

**About the Phone**

Phone features on the computer include a speaker and a microphone. You can also use a Bluetooth headset or hands-free kit.

On CT60 WWAN models the phone feature is enabled by default and supports all cellular radio access technologies (2G, 3G, etc.) for voice and data connections around the globe. These features are certified by PTCRB, GCF, and all major US carriers.

CT60 WWAN mobile computers also come equipped with two micro-SIM card slots. You might use the dual SIM feature if you require two phone numbers and data collections and have occasions when you want to use a different carrier or cellular plan for travel.

After you turn on the phone and activate service with your wireless carrier, you can customize the phone features and network settings in the Wireless & Networks section of the Settings app.

**Note:** Both WWAN radios support Network Information and Time Zone (NITZ) messages to automatically set the system time.
Select a SIM Card Slot

CT60 WWAN mobile computers (model CT60L1N) come equipped with two SIM card slots. The dual slots give you the flexibility to install two micro-SIM cards in the computer so that you can then activate and switch between them whenever you choose. Switching is easy via the SIM selection app.

Note: The device will only connect to one SIM card carrier at a time.

To switch between SIM Card slots:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap SIM Selection.
3. Under Select New Configs, tap the drop down arrow next to SIM slot.
4. Select either Slot 1 for SIM 1 or Slot 2 for SIM 2.
5. Tap the drop down arrow next to Carrier Config.
6. Select a cellular carrier.
7. Tap Apply and then OK to verify the change.
8. Tap OK again when the “Settings are saved” message appears.

Under Current Config the active SIM slot appears with the carrier setting you selected.

Note: If the wrong carrier is selected, the computer will either connect to the wrong network or not connect at all.

Activate the Phone

You use a SIM card to activate the phone on your CT60 WWAN model computer (CT60L1N). You can purchase the micro SIM card from your network provider. Dolphin CT60 WWAN models include two SIM card slots (SIM 1 and SIM 2) for multiple network provider flexibility.

Warning: If you have a CT60 model certified for use in hazardous locations, read Important Information on page 5.

1. Activate and configure the SIM slot you are installing the card in, see Select a SIM Card Slot on page 48.
2. Press and hold the Power button until the options menu appears.
3. Tap Power Off.
4. Disconnect one end of the hand strap from the computer.

5. Press and hold down the small button on the battery latch, and then slide the latch toward the bottom of the computer to unlock the battery.

6. Lift up on the edge of the battery and remove it from the computer.

7. Lift up the edge of the SIM card access door (SIM 1 or SIM 2).
8. Press down gently and slide the card holder into the unlocked position. Lift the edge of the card holder up.

9. Insert the card in the holder with the contacts facing out.

10. Close the holder with the card installed. Press down gently on the holder and slide it into the locked position.
11. Close the SIM card access door.

12. Install the battery and slide the battery latch toward the top of the computer to engage the lock.

13. Install the hand strap.

14. Press the **Power** button to turn on the computer.
Make a Phone Call

Once the phone is activated, you can make a phone call.

1. Tap ☎️ in the favorites tray to open the phone app.
2. Use one of the methods below to enter the telephone number you want to call.
   • Tap 📞 and use the on-screen dialer.
   • Select a person on your saved contact list 🗄️.
   • Select a favorite on your speed dial list ⭐.
   • Select a number from the recent calls list 🕒.
3. Tap call ☎️.
4. To end the call, tap ☎️.

Answer the Phone

When you receive a phone call, the Incoming Call screen opens. If the caller telephone number is available, it appears on the screen. Depending on your calling plan, you may also see a Caller ID information. All incoming calls are recorded in the Call log. If you miss a call, you receive a notification.

1. On the Incoming Call screen, tap and hold the white call icon.
2. Three icons appear:
   • To answer the call, drag the icon to 📞.
   • To send the caller directly to voice mail, drag the icon to ☏️.
   • To send a text message back to the caller instead of answering, drag the icon to 📨.
Switch Apps During a Phone Call

You can multitask while a phone call is in progress. For example, you can use the Calendar app to check your schedule during a call.

*Note:* Depending on your WWAN connection and carrier, apps that need a data connection may be unable to access online data while the phone call is in progress. If simultaneous phone calls and data connections are not possible due to provider limitations, voice calls receive priority. Check with your provider for more information.

1. During a phone call the screen goes dark. Take the phone away from your ear to wake the screen. Tap the Home button.
2. Select another app (e.g., Calendar, Contacts). The phone icon appears in the status bar at the top of the screen while the call is connected.
3. To return to the call screen, swipe down from the top of the screen and select ongoing call notification or select Hang up if you want to end the call.

Make an Emergency Phone Call

You can use the phone to make an emergency phone call even if the SIM card is missing from your phone. The phone shows no service but the call still goes through if you dial certain emergency numbers (e.g., 112, 911, 000, 08, 118, 119, and 999).

Configure Phone Settings

You can customize settings for the phone, including the ringtone, voicemail options, keypad tones, Internet call settings, and other options.

1. Open the phone app 📞.
2. Tap next to the microphone icon at the top of the screen.
4. Change phone settings as necessary.

*Note:* Available settings vary depending on your cellular carrier and phone plan.
Use this chapter to learn how to take pictures and record videos with the color camera.

About the Color Camera

The CT60 comes equipped with a 13-megapixel color camera, 4K video with image stabilization, and advanced software features for enhanced exposure control for taking pictures and videos. The camera lens and flash are located on the back of the computer.

Use the Photos app to view photos and videos stored on the CT60. By default the photos and videos captured with the Camera app are saved on the computer under Internal shared storage\DCIM\Camera.

How to Zoom

The camera zoom is controlled using a pinching motion on the touch screen. Place two fingers on the screen at the same time, and then:

- spread them apart to zoom in (enlarge and object).
- pinch them together to zoom out.

Take a Photo

1. Tap the **Snapdragon™ Camera** icon in the favorites tray or press the **Camera** button on the left side of the computer.

2. Using the screen as a viewfinder, move the computer until you see the image you want to capture. The camera lens is located on the back of the computer.
3. The camera automatically adjusts the focus but you can tap the screen to modify the focal point. By default, the camera senses the lighting in the environment and turns the flash on, if needed.

4. Press the Camera button or tap 📸 to take a photo.
   • To view the picture, tap the preview near the bottom of the screen.
   • To return to the Camera app, tap the Back navigation button.

## Change Camera Settings

You can change the camera settings for best results when taking pictures. The camera settings are adjustable from within the Snapdragon™ Camera app.

1. Open the **Snapdragon Camera** app 📸.
2. At the top of the screen, select any of the following to adjust the settings.

   ![Camera Settings](image)

   - **Scene Modes**
     Use preset setting profiles for best picture quality. Options include: Automatic, High Dynamic Range (HDR), Portrait, Landscape, Sports, Flowers, Backlight, Candlelight, Sunset, Night, Beach, and Snow.

   - **Color Filters**
     Stylize your pictures by applying a filter. Options include: None, Mono, Sepia, Negative, Solarize, Posterize, Aqua, Emboss, Sketch, and Neon.

   - **HDR Mode**
     Tap to quickly toggle HDR mode on or off. When enabled, the computer automatically captures multiple photos and combines them into one photo creating the best quality image possible.

   - **Advanced Settings**
     Manually set advanced features. Options include: Flash, GPS location, Picture size, Picture quality, Countdown timer, Storage, Continuous shot, Face detection, ISO, Exposure, White balance, Readeye reduction, and Shutter sound.
Record a Video

This section explains how to record video with the camera in the computer.

1. Tap the Snapdragon Camera icon in the favorites tray or press the Camera button on the left side of the computer.

2. Tap mode selection in the bottom right corner of the app.

3. Tap to select video.

4. Tap to begin recording video. To zoom in or out, pinch or spread your fingers apart.

5. When you are done recording, tap .

Change Video Settings

You can change the video settings for best results when recording video.

1. Open the Snapdragon Camera app .

2. Tap to select video.

3. At the top of the screen, select any of the following to adjust the settings.

   - **Color Filter**
     Stylize your video by applying a filter. Options include: None, Mono, Sepia, Negative, Solarize, Posterize, Aqua, Emboss, Sketch, and Neon.

   - **Sound/Microphone**
     Tap to quickly toggle sound recording on or off.

   - **Advanced Settings**
     Manually set advanced features. Options include: Flash, Video quality, Video duration, GPS location, Storage, White balance and Image stabilization.
Use this chapter to learn about the available methods for configuring your mobile computer. You can also use this chapter to learn how to configure network communications and wireless security.

**How to Configure the Computer**

You can configure many parameters on the computer such as the bar code symbologies it decodes or the network settings. The values you set for these parameters determine how the computer operates.

You configure the computer using the Settings app. Or you can use the Wi-Fi Staging app to set up multiple devices with the same base configuration (see page 79).

**Start the Settings App**

The Settings app is available from the all apps menu. Swipe up from the bottom of the Home screen to access all apps, and then tap Settings .
About the Structure of the Settings App

Use this section to learn about the structure of the Settings app so you can find parameters quickly. A search field appears at the top of the screen when you open the Settings app to help you locate settings quickly.

**Note:** The Settings app varies by computer model and OS version. Your computer may not include all the features outlined in this section.

Network & Internet

In the Settings app, select **Network & Internet** to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| Wi-Fi         | • Turn Wi-Fi radio on or off.  
                 • Lists available Wi-Fi networks in range and the connection status when the radio is turned on.  
                 • Add a network Wi-Fi connection and view saved networks. |
| Mobile Network| Modify mobile network settings, including enabling data access and roaming over mobile networks, selecting access points and network operators, or selecting only 2G networks (to save battery life).  
                 • Turn Mobile data On or Off.  
                 • Turn Roaming On or Off.  
                 • View Data use information.  
                 • Access advanced options, including:  
                   • 4G LTE Mode On/Off setting  
                   • Preferred network settings  
                   • Access point name and selection  
                   • Network selection settings |
| Data usage    | • Manage mobile/cellular data usage.  
                 • View mobile or Wi-Fi data use statistics for the current data use cycle.  
                 • Turn the Data saver feature on or off.  
                 • Turn network restrictions for metered WLAN networks on or off. |
| Hotspot & tethering | • Enable or disable USB tethering or Bluetooth tethering for sharing mobile data connections.  
                           • Enable or Disable using the computer as a portable Wi-Fi hotspot.  
                           • Configure Wi-Fi hotspot. |
| Ethernet      | • Turn Ethernet On or Off.  
                 • View last Ethernet connection information. |
| Advanced      |                                                                           |
| Mobile plan   | Provides information on your cell phone plan.                              |
| VPN           | Set the password parameters for a virtual private network (VPN) connection. |
| Airplane mode | Turn Airplane mode On or Off.                                              |
| Private DNS   | Select Private DNS Mode.                                                   |
Connected Devices

In the Settings app, select **Connected devices** to view current connected devices and to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pair new device</td>
<td>• Connect to a Bluetooth Device.</td>
</tr>
<tr>
<td></td>
<td>• Lists Bluetooth enabled devices in range.</td>
</tr>
<tr>
<td></td>
<td>• View and rename the computer.</td>
</tr>
<tr>
<td></td>
<td>• View the computer Bluetooth address.</td>
</tr>
<tr>
<td>Previously connected devices</td>
<td>View previously connected devices.</td>
</tr>
<tr>
<td>Connection Preferences</td>
<td></td>
</tr>
<tr>
<td>Bluetooth</td>
<td>• Turn the Bluetooth radio On or Off.</td>
</tr>
<tr>
<td></td>
<td>• Lists Bluetooth enabled devices in range when the radio is turned On.</td>
</tr>
<tr>
<td></td>
<td>• Connect to a Bluetooth Device.</td>
</tr>
<tr>
<td></td>
<td>• View and rename the computer.</td>
</tr>
<tr>
<td></td>
<td>• View the computer Bluetooth address.</td>
</tr>
<tr>
<td>NFC</td>
<td>Turn Near Field Communication (NFC) On or Off.</td>
</tr>
<tr>
<td></td>
<td>When the NFC radio is enabled, data exchanges are allowed when the computer touches another NFC enabled device.</td>
</tr>
<tr>
<td>Android Beam</td>
<td>Turn the Android Beam feature On or Off.</td>
</tr>
<tr>
<td></td>
<td>When NFC is enabled, this feature is accessible. You can beam app content to another NFC capable device by holding the devices close together. The app determines what content is transmitted to the other device.</td>
</tr>
<tr>
<td>Cast</td>
<td>Set up a Cast connection.</td>
</tr>
<tr>
<td></td>
<td>Cast (project) audio and screen content to a secondary device such as a television.</td>
</tr>
<tr>
<td>Printing</td>
<td>Set up a printer connection with the CT60. Connection options include cloud print services, Wi-Fi printing via a router or printing via NFC.</td>
</tr>
<tr>
<td>Received Files</td>
<td>View statistics and received files.</td>
</tr>
<tr>
<td>USB</td>
<td>Configure USB communication.</td>
</tr>
<tr>
<td>Chromebook</td>
<td>Set up connection from the CT60 to a Chromebook.</td>
</tr>
</tbody>
</table>

Apps & Notifications

In the Settings app, select **Apps & Notifications** to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>App info</td>
<td>View a list of all apps installed on the computer and system services running.</td>
</tr>
<tr>
<td>Notifications</td>
<td>• Manage notifications (e.g., turn notifications On/Off).</td>
</tr>
<tr>
<td></td>
<td>• Set rules for notifications on the screen lock.</td>
</tr>
<tr>
<td></td>
<td>• Turn notification dots On/Off.</td>
</tr>
<tr>
<td></td>
<td>• Turn LED blink notification On/Off.</td>
</tr>
<tr>
<td></td>
<td>• Set the default sound for all notifications.</td>
</tr>
<tr>
<td>Default apps</td>
<td>View and manage default app use.</td>
</tr>
</tbody>
</table>
### Battery

In the Settings app, select **Battery** to view battery status, use statistics and adjust features that conserve battery charge.

*Note: Some settings in previous OS versions can be found in Display.*

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>App permissions</td>
<td>View and manage individual app permissions.</td>
</tr>
<tr>
<td>Emergency alerts</td>
<td>Manage Emergency alert notifications.</td>
</tr>
<tr>
<td>Special app access</td>
<td>Manage apps with special unrestricted access.</td>
</tr>
</tbody>
</table>

### Display

In the Settings app, select **Display** to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness level</td>
<td>Set the Brightness level manually if Adaptive brightness feature is turned Off.</td>
</tr>
<tr>
<td>Night light</td>
<td>Activate the Night light feature to adjust the screen tint to a light amber for easier viewing and reading in dim light or for the hours you use the device before going to sleep. Set the feature to stay on or define a schedule to automatically turn the feature On/Off. You can manually adjust the intensity of the amber hue once the feature is activated.</td>
</tr>
<tr>
<td>Adaptive brightness</td>
<td>Set how the screen in sleep mode responds when new notifications are received (e.g., wake or do not wake).</td>
</tr>
<tr>
<td>Wallpaper</td>
<td>Set the wallpaper.</td>
</tr>
<tr>
<td>Sleep</td>
<td>Set the inactivity time limit before the unit automatically turns off the screen to save battery power (seconds or minutes).</td>
</tr>
<tr>
<td>Auto-rotate screen</td>
<td>Set the screen to switch from portrait to landscape when the unit is rotated. When Off the screen does not automatically rotate.</td>
</tr>
</tbody>
</table>
In the Settings app, select **Sound** to modify the audio and sound settings. To learn more, see **Audio Settings** on page 17.

**Storage**

In the Settings app, select **Storage** to view statistics on available and used storage space on the device and on any portable storage cards installed.

**Security & Location**

In the Settings app, select **Security & Location** view latest Security scan results, security updates and phone encryption status. Access additional settings related to device security.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Font size</td>
<td>Set the default on-screen text size.</td>
</tr>
<tr>
<td>Display size</td>
<td>Set the default size of items on your screen.</td>
</tr>
<tr>
<td>Screen Saver</td>
<td>Set the screen saver.</td>
</tr>
<tr>
<td>Ambient display</td>
<td>Set how the screen in sleep mode responds when new notifications are received (e.g., wake or do not wake).</td>
</tr>
<tr>
<td>Device Theme</td>
<td>Set the theme of the device. Options are: Automatic (based on wallpaper), Light, and Dark.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen Lock</td>
<td>Activate and configure a screen lock (i.e., None, Swipe, Pattern, Pin, Password).</td>
</tr>
<tr>
<td>Lock screen preferences</td>
<td>Configure the following lock screen parameters:</td>
</tr>
<tr>
<td></td>
<td>• Select notifications you want shown on the lock screen.</td>
</tr>
<tr>
<td></td>
<td>• Enable or disable adding users from the lock screen.</td>
</tr>
<tr>
<td></td>
<td>• Customize the lock screen message.</td>
</tr>
<tr>
<td>Smart Lock</td>
<td>Define safe conditions or locations where your phone will stay unlocked (e.g. On-body, Trusted places, Trusted devices, Voice Match).</td>
</tr>
<tr>
<td>Location</td>
<td>• Turn location services (Google and GPS satellite data) On or Off.</td>
</tr>
<tr>
<td></td>
<td>• View and manage app-level location service permissions.</td>
</tr>
<tr>
<td></td>
<td>• Set location mode accuracy and view location request history.</td>
</tr>
<tr>
<td></td>
<td>• Turn Wi-Fi and/or Bluetooth scanning On or Off. When enabled system apps and services are allowed to detect Wi-Fi networks or Bluetooth devices at any time to improve location services.</td>
</tr>
<tr>
<td>Show passwords</td>
<td>Enable or disable showing characters briefly as you type.</td>
</tr>
<tr>
<td>Device admin apps</td>
<td>Manage administrator privileges.</td>
</tr>
<tr>
<td>SIM card lock</td>
<td>Set up a SIM card lock or edit an existing lock.</td>
</tr>
<tr>
<td>Advanced</td>
<td></td>
</tr>
</tbody>
</table>
In the Settings app, select **Accounts** to access the following settings.

**Note:** Some settings in previous OS versions can be found in System.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encryption &amp; credentials</td>
<td>View encryption status and manage trusted credentials (e.g., view, install, clear, and edit).</td>
</tr>
<tr>
<td>Trusted agents</td>
<td>View and enable/disable trusted agent apps such as, Smart Lock by Google on the device. Trusted agents bypass security based on set parameters.</td>
</tr>
<tr>
<td>Screen pinning</td>
<td>Enable or disable the screen pinning feature. When enabled you can pin the device screen to a recently used app where it stays until you unpin the app via the security method chosen.</td>
</tr>
</tbody>
</table>

### Accounts (Previously Users & Accounts)

In the Settings app, select **Accounts** to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add account</td>
<td>Select to add and manage Corporate or Email account on the computer.</td>
</tr>
<tr>
<td>Automatically sync data</td>
<td>Turn auto-sync On or Off for accounts. Turning the feature On allows apps to refresh data automatically.</td>
</tr>
</tbody>
</table>

### Honeywell Settings

In the Settings app, select **Honeywell Settings** to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery LED</td>
<td>Configures the battery LED behavior. To learn more see, Change the Battery Status LED Behavior on page 10.</td>
</tr>
</tbody>
</table>
| Battery Optimizer        | View battery status and app usage information. Create and enable or disable a battery optimization profile that implements a group of settings to conserve power. Options include:  
  • None  
  • Energy Saver  
  • Cold Storage  
  • Add a Custom Profile  
  Tap to create a custom battery profile that balances your application needs with energy saving settings. You can turn location services On or Off, configure sound and vibration options, modify brightness and timeout display options, turn UI transition animations On or Off and background services On or Off. |
<p>| Digital Scan Button      | Enable and configure the optional digital scan button. To learn more, see About the Optional Digital Scan Button on page 43.                     |</p>
<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honeywell Power Setting</td>
<td>Turn attended mode on or off.</td>
</tr>
<tr>
<td>HXLogger</td>
<td>The HXLogger is an advanced diagnostic log service that provides a basic log service, plug-ins for modified log services, and a log manager.</td>
</tr>
<tr>
<td></td>
<td>• Tap <strong>HXLogger</strong> to turn the basic log service On or Off. When enabled the service records app and system diagnostic troubleshooting information into four basic log files: main log file, radio log, event log, and kernel log.</td>
</tr>
<tr>
<td></td>
<td>• Tap <strong>Plugin</strong> to view and enable additional log services and custom plug-ins.</td>
</tr>
<tr>
<td></td>
<td>• Tap <strong>Manager</strong>, to change the default log path, delete logs or upload logs for technical support troubleshooting.</td>
</tr>
<tr>
<td>Key Remap</td>
<td>Change (remap) a button or key function. To learn more, see Remap a Button on page 27.</td>
</tr>
<tr>
<td>Key WakeUp</td>
<td>Set the buttons you want to use to wake the computer from sleep mode. Options include: PTT (push-to-talk), Camera, Left Scan, Right Scan, Volume Up, Volume Down. By default the Left and Right Scan buttons are enabled for wake up.</td>
</tr>
<tr>
<td>Provisioning Mode</td>
<td>Enable or disable unrestricted installation of applications, certificates, configuration files, and licenses. Provisioning mode is turned Off by default. To learn more About Provisioning Mode, see page 78.</td>
</tr>
<tr>
<td>Scanning</td>
<td>Configure the computer imager. To learn more, see Change the Scanner Settings on page 36.</td>
</tr>
<tr>
<td>Smart sensors</td>
<td>Configures the integrated motion detection sensors for advanced power management. Options include: Keep awake on motion, Wake on motion, Face down suspend.</td>
</tr>
<tr>
<td>Staging Hub Agent</td>
<td>Use this agent and settings to connect the computer to the Honeywell Staging Hub Foundation software platform; a centralized software platform IT integrators and administrators can use as a solution for managing, monitoring and deploying Honeywell devices in a connected workspace environment.</td>
</tr>
<tr>
<td>Touch Screen Profiles</td>
<td>Optimize screen interactions by selecting a touch screen profile designed specifically for your use case. To learn more, see page 15.</td>
</tr>
<tr>
<td>WAAS/SBAS Settings</td>
<td>Turn WAAS/SBAS On or Off. When WAAS/SBAS is enabled, GPS accuracy is improved by using WAAS/SBAS satellites. The computer will need to reboot (restart) after turning this feature On or Off.</td>
</tr>
<tr>
<td>Web Applications</td>
<td>Enable access for Honeywell Mobility SDK for Web apps and port selection.</td>
</tr>
<tr>
<td>Wi-Fi Staging</td>
<td>Use the Honeywell Wi-Fi Staging app to quickly set up new devices by configuring one device and using it to stage others. Wi-Fi Staging can also be used to enroll devices in an Mobile Device Management (MDM) system by connecting units to a specified network and downloading and installing the specified MDM client app. To learn more, see page 79.</td>
</tr>
</tbody>
</table>

**Accessibility**

In the Settings app, select **Accessibility** to access screen readers, display settings, interaction controls, and audio & on-screen text features to improve accessibility levels.
### Google

In the Settings app, select **Google** to set up and manage your Google accounts and services.

### System

In the Settings app, select **System** to access the following settings.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>About phone</td>
<td>View device specific information including the model number, phone number, operating system version, software patch version, radio versions, build number and legal information.</td>
</tr>
</tbody>
</table>
### Setting | Description
--- | ---
**Language & input** | • Set the active language.  
• Set and manage Virtual and Physical Keyboard input methods.  
• Configure auto-typing features such as capitalization, punctuation, spell check, and the personal dictionary.  
• Set text-to-speech output.  
• Adjusts the pointer speed.

**Gestures** | • Turn Jump to Camera On/Off.  
• Turn Swipe Up on Home Button On/Off.  
• Set the Prevent ringing option. Options: Vibrate, Mute, Do Nothing.

**Date & time** | Configure all date and time settings.

**Advanced**

**Backup** | Turn the Google Drive backup feature On or Off.  
When enabled, phone data (e.g., apps, apps data, call history, contacts, device settings, SMS, Wi-Fi passwords and permissions) is automatically backed up to the Google Drive.

**Reset options** | Select from the following reset options:  
• Reset Wi-Fi, Mobile & Bluetooth  
  Use to reset all network settings, including Wi-Fi, Mobile data and Bluetooth.  
• Reset app preferences.  
  Use reset app preference back to defaults. This apps you disabled, notification changes, default app actions set, background data restrictions for apps and permission restrictions.  
• Enterprise data reset.  
  To learn more, see About an Enterprise Data Reset on page 89.  
• Erase all data (factory reset).  
  To learn more, see About a Factory Data Reset on page 90.

**Multiple Users** | • Modify the owner profile name and add profiles for other people who use the computer.  
• Activate a different user profile.  
• Enable or disable allowing users to be added from the lock screen.

**Developer options** | Enable developer-specific options such as USB debugging and SD card protection.  
This option only appears under System settings if you enable the feature. To learn more, see Unlock Developer Options on page 34.

---

**About Network Communications**

You can easily add the mobile computer to your wireless or wired data collection network. Connect the CT60 your computer using:

- 802.11 a/b/g/n/ac radio communications.
- Ethernet communications.
- Bluetooth communications.
- USB and serial communications.
Connect to a Wi-Fi Network

The computer contains an 802.11 a/b/g/n/ac radio to transfer data using wireless communications. Before you connect to a Wi-Fi network, you need to know about your network security protocol and its required credentials.

By default, the 802.11 radio is disabled.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Network & Internet > Wi-Fi.

3. Tap Off to toggle Wi-Fi radio On. A list of discovered networks appears.

4. On the list, tap a network name to initiate a connection.

   To add a network if it does not appear on the list:
   a. Navigate to the end of the discovered network list, and then tap Add network.
   b. Type the Wi-Fi network name (SSID).
   c. Choose a security protocol and add any required information.
   d. Tap Save.

5. Enter any required information if the network is secured (e.g., password, key or certificate name).

6. Tap Connect.

Once you connect to a saved Wi-Fi network:

- Tap the network name on the list to view details (e.g., status, signal strength, speed, frequency, security type). Select Cancel to close details screen.
- The computer automatically connects to the same network when the network is in range and the WLAN radio is turned on.
- To remove a network from your saved list, tap and hold the network name and select Forget network. You can do this for networks you no longer use.
- To modify a network from your saved list, tap and hold the network name and select Modify network. You can do this if you changed your network password.
- To view a list of only your saved networks, tap Saved networks.

Configure Proxy Settings for a Wi-Fi Network

If you need to connect to network resources through a proxy server, you can configure settings for the proxy server for each Wi-Fi network you add. By default, the Wi-Fi networks you add are not configured to connect through a proxy server.

**Note:** Proxy settings apply only to the Wi-Fi network you modify. You must change proxy settings for each network requiring a proxy server.
1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Network & Internet > Wi-Fi. The list of available Wi-Fi networks appears.

3. Tap and hold the name of a connected network, and then tap Modify network.

4. Tap Advanced options.

5. Under Proxy, tap None to open menu, and then select Manual.

6. Enter the proxy settings for the network.

7. Tap Save.

Disable Wi-Fi Notifications and Set WLAN Radio Sleep Parameter

By default, when Wi-Fi is enabled, you receive notifications in the Status bar when the computer discovers a wireless network. You can disable these notifications.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap Settings > Network & Internet > Wi-Fi. Verify the Wi-Fi radio is turned on.

3. Tap Wi-Fi preferences. The Configure Wi-Fi menu appears.

4. Tap the Open Network notification to toggle the setting on or off.

Connect to an Ethernet Network

To connect the computer to an Ethernet network, you need an eHomeBase or NetBase.

1. Make sure the base is connected to your Ethernet network.

2. Place the computer in the base.

3. Swipe up from the bottom of the Home screen to access all apps.

4. Tap Settings > Network & Internet > Ethernet. The Ethernet setting is turned On by default.

5. Tap Ethernet.

The Ethernet connection screen shows the current Ethernet connection. By default, the computer assumes a DHCP connection, and that your network has assigned an IP address automatically. If DHCP is working, the Ethernet base should indicate that communication with the network is occurring.

6. (Optional) To assign a static IP address.
   a. Tap DHCP and then select Static from the list.
   b. Enter the required network information, and then tap Apply.

7. Tap Save.
How to Connect to Virtual Private Networks

The computer supports connecting to virtual private networks (VPNs). This section describes how to add and connect to VPNs. To configure VPN access, you must obtain details from your network administrator. You view and change VPN settings in the Settings app.

**Note:** Before you can add or connect to a VPN network, you must enable a PIN or Password screen lock method.

Add a VPN

Before you can connect to a VPN, you must create a VPN profile.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings > Network & Internet > Advanced > VPN.**
3. Tap + to add a VPN new profile.
4. Enter the required information for the VPN connection. If needed, swipe up on the screen to access all the required information fields.
5. Tap **Save.** The VPN name appears in the VPN list.

Connect to a VPN

Once a VPN profile is created, you can connect to the VPN at any time.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings > Network & Internet > Advanced > VPN.**
3. Tap the name of the VPN in the list.
4. Enter any necessary credentials when prompted.
5. Tap **Connect.**

A ☑️ appears in the status bar and a notification is received. To disconnect from the VPN, tap the notification.

Edit VPN Information

Editing an existing VPN profile be done from the VPN screen.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings > Network & Internet > Advanced > VPN.**
3. Tap and hold the name of the VPN in the list.
4. Tap 🔄 to the right of the VPN profile you want to edit.
5. Edit the VPN settings as necessary.
6. When you are done, tap Save.

### About Wireless Security

The computer provides these security solutions for your wireless network:

- Wi-Fi Protected Access 2 (WPA2™)
- Wi-Fi Protected Access (WPA)
- 802.1x

Honeywell recommends WPA2 security with PSK (Personal) or 802.1x (Enterprise) key management.

Before you set security, you need to enable the radio, set the date, and set the SSID on your computer. To use 802.1x security, you need to load a root certificate on your computer. To use transport layer security (TLS) with 802.1x security, you also need to load a user certificate.

Use the Settings app to access and configure all wireless security settings.

### About Certificates

You can use digital certificates to identify the computer for network access or authentication to servers. To use a certificate to identify your device, you must install it in the trusted credential storage on the computer.

Android supports DER-encoded X.509 certificates saved in files with a .crt or .cer file extension. To install a valid certificate with a .der or other extension, you must change the extension to .crt or .cer to install it.

Android also supports X.509 certificates saved in PKCS#12 key store files with a .p12 or .pfx extension. To install a valid key store file with another extension, you must change the extension to .p12 or .pfx to install it. When you install a certificate from a PKCS#12 key store, Android also installs any accompanying private key or certificate authority certificates.

### Load a Certificate

To use a certificate, you must install it in the trusted credential storage on the computer.

**Note:** Apps such as email and browsers that support certificates allow you to install certificates directly from within the app. For more information, see the help that comes with the app.

1. Copy the certificate or key store from your PC to the mobile computer.
2.Swipe up from the bottom of the Home screen to access all apps.
3. Tap **Settings** > **Security & location** > **Advanced** > **Encryption & credentials**.

4. Tap **Install from storage**. Navigate to the location where you saved the certificate or key store.

5. Tap the certificate or key store to install it. If prompted, enter the key store password and tap **OK**.

6. Select **VPN and apps** or **Wi-Fi**.

7. Enter a name for the certificate and tap **OK**.

**Disable or Remove Certificates**

If a user or system certificate is compromised, or your organization chooses not to trust it, you can disable or remove the certificate.

1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **Settings** > **Security & location** > **Advanced** > **Encryption & credentials**.

   The trusted credentials screen has two tabs:
   - **System** shows Certificate Authorities (CA) certificates permanently installed on the computer. They can only be disabled.
   - **User** shows CA certificates you have installed yourself. You can remove these certificates.

3. Tap the name of the certificate to you want to disable or remove. The Security certificate screen appears.

4. Scroll to the bottom of the screen and tap **Disable** (for System certificates) or **Remove** (for User certificates).

5. Tap **OK**.

   **Note:** You can enable a disabled System certificate but if you remove a User certificate, you must install it again to enable it.

**About Bluetooth Communications**

Your mobile computer is equipped to communicate with other devices using Bluetooth technology. The Bluetooth radio must be turned on to discover, pair and connect to other Bluetooth devices. System bar icons indicate Bluetooth radio status.

**Connect a Bluetooth Device**

To connect to a Bluetooth device, you must turn on the Bluetooth radio and then select the device from a list of discovered devices.
1. Swipe up from the bottom of the Home screen to access all apps.

2. Tap **Settings** > **Connected devices**.

3. Tap Pair new device. A list of Bluetooth devices appears.

4. Select a device on the list to initiate a pairing request.

5. When the pairing request message appears:
   - Verify the pairing PIN is the same on both device, and then tap **Pair**.
   OR
   - If the pairing request requires a PIN, enter the **PIN**, and then tap **Pair**.

When the device is successfully paired with the computer, the device name appears under Paired devices.

6. (Optional) Once paired to a device, you can connect manually to the device. Tap the device under Paired devices. The word “Connected” appears under the paired device name.

   The status icon changes from ✽ to ✽.

   - To disconnect a paired device, tap the name of the paired device and then tap **OK** when the “Disconnect?” screen appears.
Rename the Computer

You can change the name of the computer to make it easier to identify when pairing with other Bluetooth enabled devices.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Connected devices > Connection preferences > Bluetooth.
3. Tap Device Name to change the device name. Type the new name and then tap Rename.

Rename or Unpair a Paired Device

You can rename a paired device to make it easier to identify on the list or unpair the device to remove it from the paired list.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Connected devices > Previously connected devices > Bluetooth.
3. Tap  next to the paired device.
4. Take one of the following actions:
   - To rename the device, type the new name, and then tap OK.
   - To allow Internet connection sharing or Contact Sharing, tap the check box next to the setting.
   - To unpair the device, tap Forget.

About the Scanner Edge App

Your mobile computer is equipped to communicate with scanners using Bluetooth technology through the Scanner Edge app. The Bluetooth radio must be turned on. System bar icons indicate Bluetooth radio status.

To turn on the Bluetooth radio:

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Connected devices > Connection preferences > Bluetooth.
3. If necessary, tap Off to toggle the Bluetooth radio On.
Connect a Bluetooth Scanner

To connect to a Bluetooth scanner, the Bluetooth radio must be turned on and then scan a pairing barcode with the Bluetooth scanner.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Scanner Edge** 📱
3. Tap the menu icon ☰ and then tap **Pair BT Scanner**.
4. For Honeywell branded scanners tap **Honeywell** or for Intermec branded scanners tap **Intermec**.
5. Scan the **Scan to connect barcode** displayed on screen.
6. When the scanner is successfully paired with the computer, the scanner name appears under **Connected Device**.

Unpair a Paired Scanner

You can unpair the scanner to remove it from the Connected Device list.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Scanner Edge** 📱

Dolphin CT60 Mobile Computer
3. Tap the menu icon and then tap Disconnect BT Scanner.
4. Tap Honeywell or Intermec.
   - Scan the Scan to disconnect barcode displayed on screen.

About Serial and USB Communications

You can use these Dolphin CT50 series accessories to transmit data to and receive data from another device through serial or USB communications:

- Vehicle dock
- HomeBase
- Ethernet HomeBase
- USB snap-on adapter
- RS-232 DEX adapter

For information on these accessories, contact your local sales representative.

USB Troubleshooting

- If you have a problem with your workstation computer recognizing the USB device, try downloading and installing the Honeywell-aidc-usb-driver. The driver is part of the Honeywell_Mobility SDK_Android software.zip file. To learn where to get the software, see Developer Information on page 78.
- Check to make sure you have enabled the USB for file transfer. To learn more, see Configure USB Connection and Transfer Files on page 22.

Use Bluetooth or USB Tethering to Share a Data Connection

You can share your mobile computer data connection with another device through a USB tethering or Bluetooth tethering connection.

Minimum requirements for USB Tethering

- The mobile phone must have an Android 9 OS or later.
- A CT60 compatible USB communication accessory.
Set up and Connection

1. Connect the USB communication accessory to both devices.
2. On the CT60, change the USB Preference setting from **USB Charging** to **USB tether**. See page 22 to learn how to change the USB Preference setting.
3. Swipe up from the bottom of the Home screen to access all apps.
4. Tap **Settings** > **Network & tethering** > **Hotspot & tethering**.
5. Select USB tethering to initiate the shared data connection.

*Note:* To stop sharing the connection, tap **USB tethering** again to turn Off the feature or disconnect the USB accessory.

Minimum requirements for Bluetooth Tethering

- All devices must support Bluetooth communication.

Set up and Connection

1. Pair the CT60 with another Bluetooth enabled device.
2. Verify the other device is set to use a network connection using Bluetooth technology.
3. Swipe up from the bottom of the Home screen to access all apps.
4. Tap **Settings** > **Network & tethering** > **Hotspot & tethering**.
5. Select **Bluetooth tethering** to initiate the shared data connection.

*Note:* To stop sharing the connection, tap **Bluetooth tethering** again to turn Off the feature.

About Near Field Communication (NFC)

NFC technology provides the ability for short-range, wireless data transfer between the CT60 and NFC tags or other NFC enabled devices placed in close proximity to the back of the computer. All CT60 mobile computers support the following modes of operation:

- **NFC tag reader/writer mode:** The computer reads and/or writes digital information from or to an NFC tag.
- **Peer-to-Peer (P2P) mode:** The computer uses Android Beam and/or Bluetooth technology to transfer screen content (e.g., a picture, contact information, Web page URL, or file) between NFC enabled devices.
- **NFC card emulation mode:** The computer emulates an NFC card (smart card) that an external card reader can access. You can download and install apps for card emulation mode from the Google Play™ store. Some examples include digital wallets (e-wallets) offered by your bank or credit card company and...
Google Pay™. The app you install determines the type of emulation mode used: Card Emulation with a Secure Element or Host-based Card Emulation. Secure element use is common for financial transactions that require a high level of security in order to provide a secure memory and execution environment for running custom smart card applets and storing your personal information (e.g., account information and credentials).

**Note:** When using a Universal Integrated Circuit (UICC) card for NFC Secure Element NFC link encryption, install the card in SIM slot 1.

**Developer Information**

To download the Honeywell Mobility SDK for Android and EZConfig for Mobility:

1. Go to [www.honeywellaidc.com](http://www.honeywellaidc.com).
2. Select **Get Resources > Software**.
4. Create an account if you have not already created one. You must login to download the software.
5. Install the Honeywell Download Manager tool on your workstation (e.g., laptop or desktop computer) prior to trying to download any files.
6. Navigate to the software:
   - **Honeywell Mobility SDK for Android**
     Click on **Software > Software and Tools > Developer Library > SDKs for Android**.
   - **EZConfig for Mobility**
     Click on **Software > Software and Tools > EZConfig for Mobility**.
7. Select **Download** next to the software zip file.

**About Provisioning Mode**

Once you complete the out-of-box initial setup process, Provisioning mode is automatically turned off to improve device security against unwanted modifications to the system.

When Provisioning mode is turned off (disabled):

- Configuration barcodes do not scan and process.
- \honeywell\autoinstall folders are inaccessible.

**Note:** To learn more about network and security for Honeywell mobile computers with Android operating systems, go to [www.honeywellaidc.com](http://www.honeywellaidc.com).
Enable or Disable Provisioning Mode

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap Settings > Honeywell Settings > Provisioning mode.
3. Tap the button to toggle the provisioning On or Off.

About Wi-Fi Staging

Overview

You can use the Honeywell Wi-Fi Staging app to quickly set up new devices by configuring one device and using it to stage others. Wi-Fi Staging can also be used to enroll devices in an Mobile Device Management (MDM) system by connecting units to a specified network and downloading and installing the specified MDM client app.

Once you have set up a configuration in the Wi-Fi Staging app on the server device, Wi-Fi staging will use that device as a hotspot and wait for a client to connect to it. The configuration will be distributed to the client device once communication is established between the client and the server device.

Staging Devices

Wi-Fi Staging requires two steps:

1. Setting up a master device to act as a server (see next section).
2. Setting up the client device (see Set Up Client Devices on page 82).

Set Up a Device as a Server

Wi-Fi Staging provides two kinds of configurations for a master device acting as a server through a hotspot. Setup of the server device will differ based on the staging configuration your choose:

- **Basic Configs** include the most common system settings:
  - System language
  - Bluetooth and NFC
  - System volume
  - Location
  - Network
  - File download
  - Application installation or launch
- **Advanced Configs** allow you to stage your devices with .xml files

The hotspot on the server device will be named HONEYWELL_WIFI_STAGING.

**Note:** We recommend starting the server before setting any clients because the clients require more time and power to scan and search for the hotspot signal if the server is not created in advance.

**Note:** To control bandwidth usage, the server side of Wi-Fi Staging has a maximum limitation of 10 concurrent client connections. If more than 10 client devices attempt to connect to the server device at the same time, staging of some of those clients will be delayed until client connections become available as the staging process progresses.

### Basic Configuration

Basic configuration includes the most common system settings.

1. Launch the Wi-Fi Staging app on the server device by tapping **Settings > Honeywell Settings > Wi-Fi Staging**.

2. Tap **Basic Configs** to start the configuration wizard.

3. **System language**: Tap `➕` to add a language. At least one language must be selected. Tap NEXT.

4. **Connection preferences**: Enable Bluetooth and/or NFC. They are disabled by default. Tap NEXT.

5. **Sound preferences**: Adjust the default volume for each type of audio by dragging the slider, then tap NEXT.

6. **Location setting**: Enable the location switch. It is disabled by default. Tap NEXT.

7. **Network & Internet**: You have the option to set up a network connection if, for example, you want to register devices to an MDM system or the devices need to use applications that require network access.

   If you do not want to set up a network connection, tap **SKIP** and proceed to Step 9.

   If you want to set up devices to connect to a Wi-Fi access point, enter the network information:

   a. Tap **Wi-Fi Security** and select either OPEN or WPA/WPA2.
   b. Enter the Wi-Fi SSID. This field cannot be empty. Then tap OK.
   c. Enter the Wi-Fi password. The password must be between 8 and 63 characters long. If you selected WPA/WPA2 a password is required.
   d. Tap NEXT.

8. **Files & Apks**: (This option will not display if you chose to skip the network settings in Step 7.) Enter the locations (URLs) of the files to be downloaded. The URL should end with the file that you want to download. Wi-Fi Staging will name the downloaded file with the file name in the URL.
• For security, only Local Area Network URLs are supported. Wi-Fi Staging will ignore URLs from Wide Area Networks.
• Supported network protocol is HTTP or HTTPS.
• APK files are installed silently and automatically after download.
• Optional: You can include a file’s hash in the file name. Wi-Fi Staging supports hash algorithms SH1 and SHA256.

9. Final Setting: Select whether you want to reboot the device after staging is complete. You can also specify an action (intent) to launch Android activities.

10. Confirm & Staging: Review the items you have configured. Tap Confirmed, start staging now! to begin. If you need to change a setting, tap the Back button to return to that screen.

Wi-Fi Staging will start a hotspot on the server device and wait for clients to connect.

11. Proceed to Set Up Client Devices on page 82.

Configurations will be distributed to any client that connects to the server device. Once the data transmission finishes successfully, the name and serial number of the configured client will display in the Wi-Fi Staging app on the server device, and the client device will skip the Android setup wizard.

Note: If you included a file’s hash in Step 8, Wi-Fi Staging will validate that the hash of the file downloaded to a device matches what you specified. If the downloaded file’s hash does not match, the file will be removed from the device.

Advanced Configuration

Advanced configuration allow you to stage your devices with one of more .xml files created by EZConfig or Enterprise Provisioner. For more information about generating .xml files, see the PowerTools User Guide or the Enterprise Provisioner User Guide.

Note: Advanced Configuration supports .xml files only. Other file types will be ignored.

Note: Do not change the default names of .xml files. (For example, DeviceConfig.xml is acceptable, but DeviceConfig1.xml is not.)

1. Choose one device to act as the server.
2. Launch Wi-Fi Staging app on the server by tapping Settings > Honeywell Settings > Wi-Fi Staging.
3. Tap Advanced Configs.
4. Tap File directory.
5. Specify where on the server device the .xml files to be downloaded are located.
6. Tap NEXT.
7. Choose the files to be applied. Tap NEXT.
8. Review the files you have selected. If you need to change any files, tap the Back button. Otherwise, tap **Confirmed, start staging now!** to begin.

Wi-Fi Staging will start a hotspot on the server device and wait for clients to connect.

9. Proceed to **Set Up Client Devices** on page 82.

**Set Up Client Devices**

The Wi-Fi Staging client runs automatically on the initial boot of a new device. However, it must be started manually on existing devices.

**New Devices**

This section applies to new, out-of-the-box devices only. For existing devices, see the next section.

1. Set up a server device (see page 79).
2. Place the new devices to be configured within 1 meter (3 feet) of the server device and turn them on.

   When a new device boots up and begins the setup wizard, it will attempt to retrieve configuration from the server device, and a staging progress screen will display.

   **Note:** *Client devices should be kept on the Android Welcome or setup wizard screen during staging. If you finish the setup wizard manually the client side of Wi-Fi Staging will stop running.*

Configurations will be distributed to any client that connects to the server device. Once the data transmission finishes successfully, the name and serial number of the configured client will display in the Wi-Fi Staging app on the server device, and the client device will skip the Android setup wizard.

**Existing Devices**

To start the Wi-Fi Staging client on an existing device:

1. Set up a server device (see page 79).
2. Turn on the client device and launch the Wi-Fi Staging app by tapping **Settings > Honeywell Settings > Wi-Fi Staging.**
3. Tap **To be Staged.**
4. A message will display notifying you that the Wi-Fi settings on the client device will be reset as part of the staging process. Tap **OK** to confirm you wish to proceed.

   Staging will begin and a progress screen will display.
5. Place the device within 1 meter (3 feet) of the server device and it will begin searching the server hotspot for a configuration.
The client devices will attempt to retrieve configuration from the server device and a staging progress screen will display. Once the client device receives and applies the configuration successfully, the progress screen will be dismissed.

**Note:** To stop the staging process on an existing device, tap the Back button on the client device.

### Log Files

Wi-Fi Staging saves a key process and exception log on the device in the following directory: /sdcard/honeywell/Android/data/com.honeywell.wifistaging/Log/

This directory can be accessed through USB if Provisioning Mode is enabled. See your device’s user guide for more information.
Use this chapter to understand how to upgrade software, reset and maintain the computer.

**About Software Updates**

Honeywell provides patches and security updates for existing software products at no additional charge. Software upgrades (from one major version to another) may involve additional charges. Some licensed software that Honeywell distributes requires user registration and log in before the software can be downloaded.

Support for Honeywell Safety and Productivity Solutions products is available online through the Technical Support Portal.

Software downloads can be accessed through the Technical Support Downloads Portal.

2. Select Resources > Software.
4. Create an account if you have not already created one. You must login to download the software.
5. Install the Honeywell Download Manager tool on your workstation (e.g., laptop or desktop computer) prior to trying to download any files.
6. Locate the app or upgrade you want to download in the Software directory tree.
7. Select Download. Follow the prompts to download the file.

**About Transferring Files via USB Connection**

If you plan on using a USB connection to transfer the upgrade files to the mobile computer, make sure you set the USB connection to allow file transfers. To learn more, see Configure USB Connection and Transfer Files on page 22.
Install Software Updates with AutoInstall

**Important:** The Dolphin CT60 must have power for the entire length of the upgrade process or it could become unstable. Do not attempt to remove the battery during the process.

1. Swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Honeywell Settings** > **Provisioning mode**.
3. Tap the toggle button to turn Provisioning mode On.
4. Save the upgrade file (*.zip or *.apk) in one of the following folders on the CT60 mobile computer:
   - **Internal shared storage\honeywell\autoinstall**
     Software upgrades saved to this folder for installation, do not persist when a Factory Reset or Enterprise data reset is performed.
   - **IPSM card\honeywell\autoinstall**
     Software upgrades saved to this folder, do not persist when a Factory Reset is performed. However, the upgrade does persist if an Enterprise data reset is performed.
5. Swipe up from the bottom of the Home screen to access all apps.
6. Tap **AutoInstall Settings** and verify **Autoinstall** is enabled.
7. Tap **Packages Update** from the AutoInstall Settings screen.
   The computer automatically initiates a reboot and installs the software upgrade. The system update screen appears during the upgrade process. When the update is finished, the lock screen appears.
8. Once installation is complete, turn Provisioning mode Off.

**Note:** Some updates do not require the computer to reboot before installation.

Optional microSD Card Method

The CT60 comes equipped with a microSD card socket. You can install an upgrade from a microSD card you insert in the computer.

**Important:** The Dolphin CT60 must have power for the entire length of the upgrade process or it could become unstable. Do not attempt to remove the battery during the process.

1. On the CT60, swipe up from the bottom of the Home screen to access all apps.
2. Tap **Settings** > **Honeywell Settings** > **Provisioning mode**.
3. Tap the toggle button to turn Provisioning mode On.
4. Tap **AutoInstall Settings**, Verify **Autoinstall** is enabled.
5. Press and hold the **Power** button, and then tap **Power off**.
6. On your workstation (e.g., laptop, desktop computer), format the microSD card and create a `honeywell\autoinstall` folder on the root of the card.

7. Save the upgrade file in the `autoinstall` folder.

8. Install the microSD card in the CT60, and then press the **Power** button.

   The computer automatically runs the upgrade found in the autoinstall folder on the card. The system update screen appears during the upgrade process. When the upgrade is finished, the lock screen appears.

9. Once installation is complete, turn Provisioning mode **Off**.

---

**About the Honeywell Upgrader**

Use the Honeywell Upgrader app (HUpgrader) to check for and install OTA updates, and view the current OTA version installed on the computer.

**Install OTA Updates**

To use the HUpgrader to install an OTA update file downloaded from the Technical Support Downloads Portal:

1. Save the OTA file (*.zip) the following folder on the CT60 computer:
   - Internal shared storage\Download

2. Tap **HUpgrader** to open the Honeywell Updater app.
3. Tap \( \mathbb{H} \), and then tap **Select OTA from storage**.
4. Select the storage location (i.e., Internal Storage) where you saved the file.
5. Tap the OTA update file. The computer examines the file, and then starts the installation.

![](image)

6. Once the installation is complete (100%), select **OK** when prompted to **Reboot** the computer. The computer reboots and finishes the update.

**Restart (Reboot) the Computer**

You may need to restart the computer to correct conditions where an application stops responding to the system.

1. Save your files and close any open applications.
2. Press and hold the **Power** button until the options screen appears.
3. Tap **Restart**.

If the touch panel display is unresponsive:

- Press and hold the **Power** button for approximately 8 seconds until the computer restarts.
About an Enterprise Data Reset

You can perform an Enterprise data reset if a Reboot did not improve the condition and all other troubleshooting methods have not resolved the issue. This method provides a clean configuration for troubleshooting by erasing all data from the **Internal shared storage** location on the computer. Data is not erased from the **IPSM Card** location.

**Caution:** An Enterprise data reset results in data loss, only perform this procedure if all other recovery methods have failed. All personal content is erased including, but not limited to emails, pictures, contacts, Google account information, system settings and app settings.

**Note:** This method of recovery may not be available if your system administrator has set policies to prevent the reset use.

Before You Begin

- If you recently reset your Google Account password, wait 24 hours before performing a Enterprise data reset.
- Make sure you have your screen lock password, PIN or pattern if you activated one. You will need this to reset the computer.
- If you have a Google Account, back up your data and settings to your Google Account so you can restore them if needed.
- Connect the computer to an external power source or make sure you have a full battery charge.
- Make sure you have an Internet connection.

Enterprise Data Reset the Computer

1. Swipe up from the bottom of the Home screen to access all apps.
2. Select **Settings > System > Advanced > Reset options**.
3. Tap **Enterprise data reset**.
4. Tap **Reset Phone**.
5. If prompted, type your screen lock security pattern, PIN, or password and tap next ( ).
6. Tap **Erase Everything**. A message appears informing you an Enterprise data reset is being performed.
About a Factory Data Reset

A Factory Data Reset should only be performed if you have exhausted all other troubleshooting options. This method reverts the computer back to the factory state by erasing all data in Internal shared storage and the IPSM Card storage locations on the computer.

**Caution:** A Factory data reset results in data loss. Perform this procedure only if all other recovery methods have failed and have no other option. All personal content is erased including, but not limited to emails, pictures, contacts, Google account information, system settings and app settings.

**Note:** This method of recovery may not be available if your system administrator has set policies to prevent the reset use.

Before You Begin

- If you added a Google Account to the Dolphin CT60 computer, make sure you have your Google username and password associated with the computer. If you do not have the username and password, you will not be able to use the computer after the reset. This is a security measure that prevents unauthorized users from using the device if they try a Factory data reset.
- If you did not add a Google Account to the computer, the extra security level is not enabled and you will not need a Google username and password.
- If you recently reset your Google Account password, wait 24 hours before performing a Factory reset.
- Connect the computer to an external power source or make sure you have a full battery charge.
- Make sure you have an Internet connection.

Factory Data Reset the Computer

1. Swipe up from the bottom of the Home screen to access all apps.
2. Select Settings > System > Advanced > Reset options.
3. Tap Erase all data (factory reset).
4. Tap Reset Phone.
5. If prompted, type your screen lock security pattern, PIN, or password and tap next ( ).
6. Tap Erase Everything. A message appears informing you an Enterprise data reset is being performed.
Repairs

Repairs and/or upgrades are not to be performed on this product. These services are to be performed only by an authorized service center (see Customer Support on page vii).

Maintenance

Your device provides reliable and efficient operation with a minimum of care. Although specific maintenance is not required, the following sections describe periodic checks to ensure dependable operation.

Clean the Computer

The computer housing, scanner window, camera window and touch screen may be cleaned with a soft cloth dampened with water or a mild detergent-water solution. If a mild detergent solution is used, wipe the computer with a clean cloth dampened only with water to remove any detergent residue.

Caution: Do not submerge the computer in cleaning solution. Do not use abrasive wipes or cloths on the windows or touch screen. Abrasive wipes may scratch the windows and touch screen. Never use solvents (e.g., acetone) on the housing or windows. Solvents may damage the computer finish, the windows or touch screen.

Caution: Ensure all components are dry prior to mating the computer with charging accessories or other peripheral devices. Mating wet components may cause damage not covered by the warranty.

Clean the Window

Reading performance may degrade if the scanner window is not clean. If the window is visibly dirty, or if the scanner is not operating well, clean the window with soft cloth dampened with water.

Caution: Do not use abrasive wipes or cloths on the scanner window. Abrasive wipes may scratch the window. Never use solvents (e.g., acetone) on the window. Solvents may damage the window.
About Disinfectant-ready Models

Some configurations of the CT60 computer are available with an external plastic housing that is designed to resist the effects of harsh chemicals. These scanners are equipped with disinfectant-ready housings (DRH) for the general-purpose markets.

Please refer to the Honeywell Safety and Productivity Solutions website for specific details on how to clean the CT60 computer with disinfectant-ready housings. Helpful information on the care of these specialty products can be found in the following article:

• Honeywell Instructions for Cleaning General Purpose Disinfectant-Ready Housing Devices
**Computer Agency Information**

Dolphin CT60 mobile computers meet or exceed the requirements of all applicable standards organizations for safe operation. The best way to ensure safe operation is to use the mobile computer according to the agency guidelines on the product regulatory sheet, quick start guide, battery insert and in this user guide. Read all guidelines before using your computer.

Product documentation is available for download from [www.honeywellaidc.com](http://www.honeywellaidc.com).

Public certificates are available for download from [www.honeywellaidc.com/compliance](http://www.honeywellaidc.com/compliance).

**Label Locations**

Labels inside the battery compartment contain information about the computer including, compliance information, model number, serial number, IMEI number (CT60L1N models only) and MAC address. Laser safety labeling is located on the back of the computer.

Identification Numbers (e.g., Serial Number, IMEI, MEID, MAC address)

Laser Safety Label Location

Model CT60L1N

Compliance Label Location

Identification Numbers (e.g., Serial Number, MEID, MAC address)

Model CT60L0N
Physical and Environmental Specifications

2. Type CT60 in the Search box and then press Enter.
3. Select the Products tab.
4. Click the red arrow under the Dolphin CT60 Handheld Computer or CT60 XP Mobile Computer description.
5. Select one of the following:
   - **Specifications**
     View System Architecture, Wireless Connectivity, Mechanical, and Environmental specifications.
   - **Documents**

Barcode Symbologies

The computer supports the following barcode symbologies:

<table>
<thead>
<tr>
<th>1D Symbologies</th>
<th>2D Symbologies</th>
<th>Postal Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>Default</td>
<td>Default</td>
</tr>
<tr>
<td>Codabar</td>
<td>Enabled</td>
<td>Aztec Code</td>
</tr>
<tr>
<td>Code 39</td>
<td>Enabled</td>
<td>Codablock A</td>
</tr>
<tr>
<td>Code 11</td>
<td>Disabled</td>
<td>Codablock F</td>
</tr>
<tr>
<td>Code 93</td>
<td>Disabled</td>
<td>DataMatrix</td>
</tr>
<tr>
<td>Code 128</td>
<td>Enabled</td>
<td>DotCode</td>
</tr>
<tr>
<td>ISBT 128</td>
<td>Disabled</td>
<td>Grid Matrix</td>
</tr>
<tr>
<td>Composite</td>
<td>Disabled</td>
<td>HanXin</td>
</tr>
<tr>
<td>Digimarc</td>
<td>Disabled</td>
<td>Maxicode</td>
</tr>
<tr>
<td>EAN-8</td>
<td>Enabled</td>
<td>Micro PDF 417</td>
</tr>
<tr>
<td>EAN-13</td>
<td>Enabled</td>
<td>PDF 417</td>
</tr>
<tr>
<td>GS1-128</td>
<td>Enabled</td>
<td>QR Code</td>
</tr>
<tr>
<td>GS1 DataBar</td>
<td>Disabled</td>
<td>TLC 39</td>
</tr>
<tr>
<td>IATA 2 of 5</td>
<td>Disabled</td>
<td>OCR</td>
</tr>
<tr>
<td>Standard 2 of 5</td>
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<td></td>
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<tr>
<td>Interleaved 2 of 5</td>
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<td></td>
</tr>
<tr>
<td>Matrix 2 of 5</td>
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<tr>
<td>MSI</td>
<td>Disabled</td>
<td></td>
</tr>
<tr>
<td>Telepen</td>
<td>Disabled</td>
<td></td>
</tr>
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### N6603SR Slim Imager Engine Reading Distances

The guaranteed depth of field measurements were taken using these parameters:

- Distances are measured from the front of the engine.
- \(+23\ \degree\text{C}\ (\pm 73\ \degree\text{F}), 0\ \text{lux}\)
- Photographic quality codes

**Note:** *Time to Read and Depth of Field are impacted if the barcode symbol is at the edge of the image.*

#### White Illumination Monochrome Sensor Only - Guaranteed Specs

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mil Code 39/128</td>
<td>mm</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>3.6</td>
</tr>
<tr>
<td>10 mil Code 39/128</td>
<td>mm</td>
<td>48</td>
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<tr>
<td></td>
<td>in.</td>
<td>1.9</td>
</tr>
<tr>
<td>100% UPC</td>
<td>mm</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>2.1</td>
</tr>
<tr>
<td>6.7 mil PDF 417</td>
<td>mm</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>2.5</td>
</tr>
<tr>
<td>10 mil DataMatrix/Aztec</td>
<td>mm</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>2.9</td>
</tr>
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#### White Illumination Monochrome Sensor Only - Typical Specs

<table>
<thead>
<tr>
<th>Symbology</th>
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<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mil Code 39/128</td>
<td>mm</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>2.5</td>
</tr>
</tbody>
</table>
N6603SR Slim Imager Engine Field of View/Resolution

### Focus

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mil Code 39/128</td>
<td>mm</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>1.1</td>
</tr>
<tr>
<td>100% UPC</td>
<td>mm</td>
<td>46</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>1.8</td>
</tr>
<tr>
<td>6.7 mil PDF 417</td>
<td>mm</td>
<td>46</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>1.8</td>
</tr>
<tr>
<td>10 mil DataMatrix/ Aztec</td>
<td>mm</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>2.1</td>
</tr>
</tbody>
</table>

Note: DPI can be calculated based on the following formula:

Horizonal DPI = 832 pixels/width of horizontal field of view (inches)

Vertical DPI = 640 pixels/width of vertical field of view (inches)

N6703SR Slim Imager Engine Reading Distances

The guaranteed depth of field measurements were taken using these parameters:

- Distances are measured from the front of the engine.
- +23 °C (+73 °F), 0 lux
- Photographic quality codes

Note: Time to Read and Depth of Field are impacted if the barcode symbol is at the edge of the image.

#### Guaranteed Specs

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mil Code 39</td>
<td>mm</td>
<td>79</td>
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<td></td>
<td>in.</td>
<td>3.11</td>
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<td>10 mil Code 39</td>
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<td>40</td>
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<tr>
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<td>in.</td>
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</tr>
<tr>
<td>20 mil Code 39</td>
<td>mm</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>1.50</td>
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</table>
### Typical Specs (200 lux)

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
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<tbody>
<tr>
<td>5 mil Code 39</td>
<td>mm 70</td>
<td>mm 301</td>
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<tr>
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<td>in. 2.75</td>
<td>in. 11.85</td>
</tr>
<tr>
<td>10 mil Code 39</td>
<td>mm 29</td>
<td>mm 517</td>
</tr>
<tr>
<td></td>
<td>in. 1.14</td>
<td>in. 20.35</td>
</tr>
<tr>
<td>20 mil Code 39</td>
<td>mm 35</td>
<td>mm 800</td>
</tr>
<tr>
<td></td>
<td>in. 1.38</td>
<td>in. 31.50</td>
</tr>
<tr>
<td>13 mil 100% UPC-A</td>
<td>mm 34</td>
<td>mm 573</td>
</tr>
<tr>
<td></td>
<td>in. 1.34</td>
<td>in. 22.56</td>
</tr>
<tr>
<td>15 mil Code 128</td>
<td>mm 34</td>
<td>mm 650</td>
</tr>
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<td></td>
<td>in. 1.34</td>
<td>in. 25.59</td>
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<tr>
<td>10 mil Data Matrix</td>
<td>mm 72</td>
<td>mm 297</td>
</tr>
<tr>
<td></td>
<td>in. 2.83</td>
<td>in. 11.69</td>
</tr>
<tr>
<td>5 mil PDF417</td>
<td>mm 105</td>
<td>mm 181</td>
</tr>
<tr>
<td></td>
<td>in. 4.13</td>
<td>in. 7.12</td>
</tr>
<tr>
<td>6.7 mil PDF417</td>
<td>mm 84</td>
<td>mm 244</td>
</tr>
<tr>
<td></td>
<td>in. 3.31</td>
<td>in. 9.61</td>
</tr>
<tr>
<td>6.7 mil QR</td>
<td>mm 105</td>
<td>mm 169</td>
</tr>
<tr>
<td></td>
<td>in. 4.13</td>
<td>in. 6.65</td>
</tr>
</tbody>
</table>
N6703SR Slim Imager Engine Field of View/Resolution

<table>
<thead>
<tr>
<th>Focus</th>
<th>Standard Range (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Field Angle (degrees)</td>
<td>48 ±2°</td>
</tr>
<tr>
<td>Vertical Field Angle (degrees)</td>
<td>31 ±2°</td>
</tr>
</tbody>
</table>

Note: DPI can be calculated based on the following formula:
Horizontal DPI = 832 pixels/width of horizontal field of view (inches)
Vertical DPI = 640 pixels/width of vertical field of view (inches)

N6803 Slim Imager Engine Reading Distances

The guaranteed depth of field measurements were taken using these parameters:
- Distances are measured from the front of the engine.
- +23 °C (+73 °F), 0 lux
- Photographic quality codes

Note: Time to Read and Depth of Field are impacted if the barcode symbol is at the edge of the image.

Guaranteed Specs

<table>
<thead>
<tr>
<th>Symbology</th>
<th>Near Distance</th>
<th>Far Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 mil Code 39</td>
<td>mm 138</td>
<td>365</td>
</tr>
<tr>
<td>in. 5.43</td>
<td>14.37</td>
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<tr>
<td>10 mil Code 39</td>
<td>mm 94</td>
<td>1198</td>
</tr>
<tr>
<td>in. 3.7</td>
<td>47.17</td>
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</tr>
<tr>
<td>20 mil Code 39</td>
<td>mm 63</td>
<td>2161</td>
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<tr>
<td>in. 2.48</td>
<td>85.08</td>
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<tr>
<td>55 mil Code 39</td>
<td>mm 6546</td>
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<tr>
<td>in. 257.72</td>
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<td></td>
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<tr>
<td>100 mil Code 39</td>
<td>mm 9843</td>
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<tr>
<td>in. 387.52</td>
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<td></td>
</tr>
<tr>
<td>13 mil 100% UPC-A</td>
<td>mm 68</td>
<td>1437</td>
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<tr>
<td>in. 2.68</td>
<td>56.57</td>
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</tr>
<tr>
<td>Symbology</td>
<td>Near Distance</td>
<td>Far Distance</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------</td>
<td>--------------</td>
</tr>
<tr>
<td>5 mil Code 39</td>
<td>mm 122</td>
<td>mm 414</td>
</tr>
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<td>in. 4.8</td>
<td>in. 16.3</td>
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<td>mm 85</td>
<td>mm 1368</td>
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<td>in. 3.35</td>
<td>in. 53.86</td>
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<td>mm 56</td>
<td>mm 2645</td>
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<td></td>
<td>in. 2.2</td>
<td>in. 104.13</td>
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<td>mm</td>
<td>mm 7159</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>in. 281.85</td>
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<tr>
<td>100 mil Code 39</td>
<td>mm</td>
<td>mm 10815</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>in. 400.98</td>
</tr>
<tr>
<td>13 mil 100% UPC-A</td>
<td>mm 60</td>
<td>mm 1600</td>
</tr>
<tr>
<td></td>
<td>in. 2.36</td>
<td>in. 62.99</td>
</tr>
<tr>
<td>15 mil Code 128</td>
<td>mm 58</td>
<td>mm 1894</td>
</tr>
<tr>
<td></td>
<td>in. 2.28</td>
<td>in. 74.57</td>
</tr>
<tr>
<td>10 mil Data Matrix</td>
<td>mm 135</td>
<td>mm 419</td>
</tr>
<tr>
<td></td>
<td>in. 5.31</td>
<td>in. 16.5</td>
</tr>
<tr>
<td>100 mil Data Matrix</td>
<td>mm</td>
<td>mm 5641</td>
</tr>
<tr>
<td></td>
<td>in.</td>
<td>in. 222.09</td>
</tr>
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**N6803SR Slim Imager Engine Field of View/Resolution**

<table>
<thead>
<tr>
<th>Focus</th>
<th>Standard Range (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Near Field Optical System</td>
<td></td>
</tr>
<tr>
<td>Horizontal Field Angle (degrees)</td>
<td>48°</td>
</tr>
<tr>
<td>Vertical Field Angle (degrees)</td>
<td>21°</td>
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<tr>
<td>Far Field Optical System</td>
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</tr>
<tr>
<td>Horizontal Field Angle (degrees)</td>
<td>20°</td>
</tr>
</tbody>
</table>
Note: DPI can be calculated based on the following formula:
Near Field Optical System:
DPI = 800 pixels/width of view (inches)

Far Field Optical System:
Horizontal DPI = 1280 pixels/width of horizontal field of view (inches)
Vertical DPI = 800 pixels/width of vertical field of view (inches)

<table>
<thead>
<tr>
<th>Focus</th>
<th>Standard Range (SR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical Field Angle (degrees)</td>
<td>12°</td>
</tr>
</tbody>
</table>